

a Division of Environmental Management Strategies, Inc.

### ATTORNEY-CLIENT WORK PRODUCT PRIVILEGED AND CONFIDENTIAL

March 17, 2011

Justin Massey Miller, Axline & Sawyer 1050 Fulton Avenue, Suite 100 Sacramento, California 95825

Subject: Summary of Soil and Groundwater Sampling Methods Performed in Reference

to the former Crucible Materials Site and the Vista Paint Site,

Fullerton, California

Dear Mr. Massey:

Environmental Support Technologies (EST) is pleased to submit the following summary of soil and groundwater sampling methods performed in reference to the former Crucible Materials site and the Vista Paint site in Fullerton, California.

Sampling for this project was performed at the following address in Fullerton, California:

- 1850 East Orangethorpe Avenue
- 2020 East Orangethorpe Avenue
- 2230 East Orangethorpe Avenue

This summary includes the following items:

- A description of soil and groundwater sampling methods.
- A description of soil analytical methods.
- A site map that includes a posting of analytical results for soil (**Attachment A**).
- A summary table of analytical results for soil (**Attachment B**).
- Lithological logs for soil borings (**Attachment C**).
- Laboratory analytical reports for soil (**Attachment D**).

#### 1.0 DRILLING AND SOIL SAMPLE COLLECTION METHODS

#### 1.1 CM-GW01, CM-GW02, CM-GW03 and CM-GW04

Drilling for soil and groundwater sampling was performed on January 19, 2011 at location CM-GW01, on January 20, 2011 at location CM-GW04 and on January 21, 2011 at locations CM-GW02 and CM-GW03 using hollow-stem auger drilling equipment supplied and operated by Cascade Drilling, Inc. These borings were advanced to first or "perched" groundwater located

near 80 feet below the ground surface (bgs) in this area. Soil samples were collected at 5-foot vertical intervals in each boring to perched groundwater for logging and chemical analysis purposes. The soil samples were collected during drilling using a 2-inch inside diameter split-barrel sampler loaded with clean brass sample rings. Soil boring logs for CM-GW01 through CM-GW04 are provided in **Attachment C**.

Soil samples intended for volatile organic compound (VOC) chemical analysis were preserved in the field according to US EPA Method 5035 (DTSC November 2004 guidance document, Option 1A and 1B). The sample containers were labeled and logged on a chain-of-custody form and placed in an ice chest for temporary storage and delivery to the Cal EPA Certified Laboratory selected to perform the chemical analyses. Chain-of-custody documents are provided in **Attachment D**.

#### 1.2 CM-GW01A, CM-GW02A, CM-GW03A and CM-GW04A

Drilling for soil and groundwater sampling was performed on February 22 and 23, 2011 at location CM-GW01A, on February 24 and 25, 2011 at location CM-GW04A, and on March 4 and 5, 2011 at locations CM-GW02A and CM-GW03A using sonic drilling equipment supplied and operated by Cascade Drilling, Inc. These boring were advanced to the "shallow aquifer", the top of which is located between approximately 115 and 125 feet bgs in this area. A continuous soil core was collected for logging purposes from 80 feet to the bottom of the borings using sonic drill pipe. Eight-inch diameter sonic drill pipe was advanced to a depth of approximately 100 feet bgs in each boring. A 6-inch diameter sonic drill pipe was advanced through the 8-inch pipe for soil core collection between 80 and 100 feet bgs in each boring.

Approximately five feet of 1/4-inch mesh-size, 30-minute time-release bentonite pellets were placed in the 8-inch drill pipe from approximately 95 to 100 feet bgs after completion of soil sampling to this depth. This interval coincides with a stiff clay soil layer located between approximately 90 and 100 feet bgs in this area. The 8-inch drill pipe was retraced approximately 5 feet and the pellets were hydrated and allowed to swell for a minimum period of one hour prior to continuation of drilling.

After the hydration period, the 8-inch pipe was re-advanced to 100 feet and the 6-inch diameter sonic drill pipe was advanced through the 8-inch pipe to between approximately 135 and 136 feet bgs in each boring. A 4-inch diameter by 10-foot length sonic coring pipe was advanced through the 6-inch pipe to approximately 135 feet bgs for soil core collection in each boring. Soil boring logs for CM-GW01A through CM-GW04A are provided in **Attachment C**.

#### 2.0 GROUNDWATER SAMPLE COLLECTION METHODS

#### 2.1 CM-GW01, CM-GW02, CM-GW03 and CM-GW04

The hollow-stem auger was advanced in borings CM-GW01 through CM-GW04 from the surface to first encountered groundwater. A summary of the approximate depths groundwater was encountered in these borings and total boring depths bgs is provided below.

Boring	GW Encountered	Total Boring Depth
CM-GW01	80 ft.	85 ft.
CM-GW02	80 ft.	85 ft.
CM-GW03	80 ft.	85 ft.
CM-GW04	80 ft.	85 ft.

Groundwater encountered near 80 feet bgs in borings CM-GW01 through CM-GW04 was considered to be "perched groundwater." Groundwater samples were collected from these borings by installation of temporary PVC wells. The temporary wells were constructed using 10 feet of new 2-inch diameter PVC well screen with 0.010 inch slots and new 2-inch PVC blank casing from the top of the screen to the surface. Filter socks were placed on the well screens to limit sediment infiltration during sampling. Number 2/12 silica sand packs were installed in the annular spaces of the borings around the screens to further limit sediment infiltration during sampling. The hollow-stem auger was retracted approximately 10 feet after well installation to allow for free-flow of groundwater into the screens.

The screen intervals depths and depth to groundwater measured in the temporary wells are provided below. The depth to groundwater measured in temporary wells prior to sampling appeared to be near the expected static levels.

Boring	Screen Interval	Depth to Groundwater
_		-
CM-GW01	75-85 ft.	80 ft.
CM-GW02	75-85 ft.	75 ft.
CM-GW03	75-85 ft.	76 ft.
CM-GW04	75-85 ft.	72 ft.

Approximately 8-gallons of groundwater were purged from temporary wells CM-GW02 and CM-GW03 using a clean PVC bailer and new nylon line before groundwater sample collection. Approximately 4-gallons and 10-gallons of groundwater were purged from wells CM-GW01 and CM-GW04 before sampling, respectively. Equipment blank samples were provided to OCWD personnel for each well sampled by pouring deionized water provide by OCWD through the PVC bailer after a decontamination event. Groundwater samples were collected using new disposable bailers and nylon line and supplied to OCWD personnel. After completion of groundwater sampling, the well casings were removed and the hollow-stem auger was readvanced to the bottom of the borings to remove the sand packs. The borings were then sealed with hydrated bentonite grout applied by Tremie pipe method as the auger was retracted from the

bottom of the borings to approximately 4 feet bgs. Approximately two feet of dry bentonite chips were placed on top of the grout seals and the surface was repaved with approximately two feet of rapid-set concrete at each boring location.

#### 2.2 CM- GW01A, CM-GW02A, CM-GW03A and CM-GW04A

The sonic drill pipe was advanced in borings CM-GW01A through CM-GW04A to total depths of between approximately 135 and 136 feet bgs. Groundwater samples were collected from these borings by installation of temporary PVC wells. The temporary wells were constructed using 10 feet of new 2-inch diameter PVC well screen with 0.010 inch slots and new 2-inch PVC blank casing from the top of the screen to the surface. Filter socks were placed on the well screens to limit sediment infiltration during sampling. The screen interval depths and depths to groundwater measured in temporary wells CM-GW04A through CM-GW04A are provided below. The depths to groundwater measured in the temporary wells prior to sampling may not be representative of static levels.

Boring	Screen Interval	Depth to Groundwater
•		-
CM-GW01A	124 to 134 ft.	118 ft.
CM-GW02A	121 to 131 ft.	116 ft.
CM-GW03A	123 to 133 ft.	122 ft.
CM-GW04A	123 to 133 ft.	122 ft.

Approximately 6-gallons of groundwater were bailed from temporary wells CM-GW01A through CM-GW04A using a clean PVC bailer and new nylon line before groundwater sample collection. Equipment blank samples were provided to OCWD personnel for each well sampled by pouring deionized water provided by OCWD through the PVC bailer after a decontamination event. Groundwater samples were collected using a new disposable bailer and nylon line and supplied to OCWD personnel. After completion of groundwater sampling, the well casings were removed and the borings were sealed with hydrated bentonite grout applied by Tremie pipe method as the sonic pipe was retracted from the bottom of the borings to approximately 4 feet bgs. Approximately two feet of dry bentonite chips were placed on top of the grout seals and the surface was repayed with approximately two feet of rapid-set concrete at each boring location.

#### 3.0 SOIL CHEMICAL ANALYSIS METHODS AND RESULTS

A summary of soil sample collection locations, depths and analytical results is provided as **Table 1** (**Attachment B**). Soil samples were analyzed for VOCs by Environmental Support Technologies using EPA Method 8260B (ELAP #2511). The laboratory analytical reports are provided in **Attachment C**. Concentrations of PCE, TCE, 1,1-DCE detected in soil are posted on **Figure 1** (**Attachment A**).

#### 4.0 EQUIPMENT DECONTAMINATION

The decontamination procedures focused primarily on equipment used to collect soil and water samples (bailers, etc.). The sampling equipment was decontaminated prior to use and between sampling events. The decontamination procedure consisted of a three-bucket chain, which includes a non-phosphate detergent station, final potable water rinse station and air-drying station. Equipment blank samples were collected after decontamination events at a rate of one per day of sampling. A high-pressure steam cleaner was utilized to decontaminate larger equipment (hollow-stem auger and sonic drill pipe).

#### 5.0 INVESTIGATION-DERIVED WASTES

Investigation derived waste (IDW) generated during this project included soil cuttings, equipment decontamination water and groundwater from temporary well sampling. Soil IDW was placed in a roll-off bin equipped with a locking cover and 55-gallon drums. Water IDW was placed in steel 55-gallon drums. The IDW was transported for legal off-site disposal or recycling as non-hazardous waste by Belshire Environmental Services. Waste manifests and disposal documentation will be submitted to Miller, Axline & Sawyer upon availability.

Please contact the undersigned at (949) 679-9500 if you have any questions or comments.

Sincerely,

**Environmental Support Technologies** 

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Michael Marello, PG, CHG, REA I Project Manager/Senior Hydrogeologist

Attachments: Attachment A – Site Map

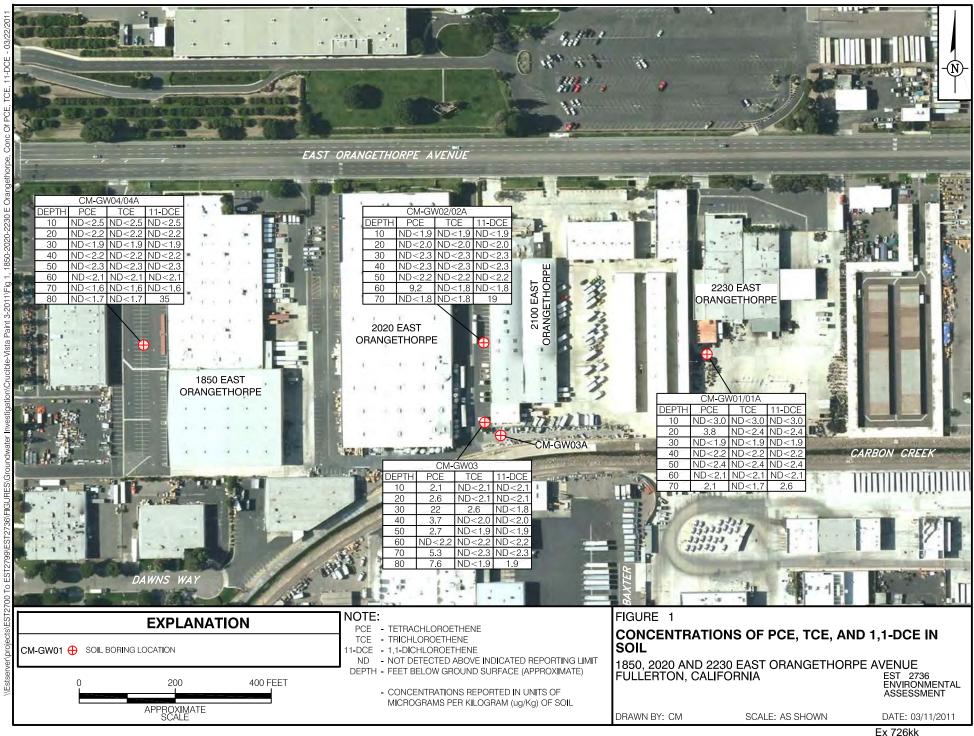
Attachment B - Table 1 Attachment C - Boring Logs

Attachment D – Laboratory Analytical Reports for Soil

cc: David Mark/OCWD EST Project File 2736



# ATTACHMENT A SITE MAP



### ATTACHMENT B SUMMARY TABLE OF SOILS ANALYSES

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#### **TABLE 1**

#### Summary of Laboratory Analytical Data for Volatile Organic Compounds in Soil 1850, 2020 and 2230 East Orangethorpe Avenue, Fullerton, California

1850, 2020 and 2230 East Orangethorpe Avenue, Full 01/28/11

EST2736

Location	Sample	Date	Depth	PCE	TCE	Cis-12-DCE	111-TCA	11-DCE	11-DCA	112-TCA	CDS
Address	Number	(mm/dd/yy)	ft. bgs	(µg/Kg)	(µg/Kg)	(µg/Kg)	(µg/Kg)	(µg/Kg)	(µg/Kg)	(µg/Kg)	(µg/Kg)
Pete's Road Service	CM-GW01-10	01/19/11	10	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND<3.0	ND<3.0
2230 E. Orangethorpe Ave.	CM-GW01-20	01/19/11	20	3.8	ND<2.4	ND<2.4	ND<2.4	ND<2.4	ND<2.4	ND<2.4	8.0
Fullerton, California	CM-GW01-30	01/19/11	30	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9
	CM-GW01-40	01/19/11	40	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2
	CM-GW01-50	01/19/11	50	ND<2.4	ND<2.4	ND<2.4	ND<2.4	ND<2.4	ND<2.4	ND<2.4	ND<2.4
	CM-GW01-60	01/19/11	60	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1
	CM-GW01-70	01/19/11	70	2.1	ND<1.7	ND<1.7	ND<1.7	2.6	ND<1.7	ND<1.7	ND<1.7
Vista Paint	CM-GW02-10	01/21/11	10	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9	2.1
2020 E. Oragethorpe Ave.	CM-GW02-20	01/21/11	20	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Fulerton, California	CM-GW02-30	01/21/11	30	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3
	CM-GW02-40	01/21/11	40	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3
	CM-GW02-50	01/21/11	50	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2
	CM-GW02-60	01/21/11	60	9.2	ND<1.8	1.8	2.0	ND<1.8	ND<1.8	ND<1.8	ND<1.8
	CM-GW02-70	01/21/11	70	ND<1.8	ND<1.8	ND<1.8	ND<1.8	19	4.9	1.8	ND<1.8
Vista Paint	CM-GW03-10	01/21/11	10	2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1
2020 E. Oragethorpe Ave.	CM-GW03-20	01/21/11	20	2.6	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1
Fullerton, California	CM-GW03-30	01/21/11	30	22	2.6	ND<1.8	4.5	ND<1.8	ND<1.8	ND<1.8	ND<1.8
	CM-GW03-40	01/21/11	40	3.7	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
	CM-GW03-50	01/21/11	50	2.7	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9
	CM-GW03-60	01/21/11	60	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2
	CM-GW03-70	01/21/11	70	5.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3
	CM-GW03-80	01/21/11	80	7.6	ND<1.9	ND<1.9	ND<1.9	1.9	ND<1.9	ND<1.9	ND<1.9
Liquidation Services	CM-GW04-10	01/20/11	10	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
1850 E. Orangethorpe Ave.	CM-GW04-20	01/20/11	20	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2
Fullerton, California	CM-GW04-30	01/20/11	30	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9	ND<1.9
	CM-GW04-40	01/20/11	40	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2	ND<2.2
	CM-GW04-50	01/20/11	50	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3	ND<2.3
	CM-GW04-60	01/20/11	60	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1	ND<2.1
	CM-GW04-70	01/20/11	70	ND<1.6	ND<1.6	ND<1.6	ND<1.6	ND<1.6	ND<1.6	ND<1.6	5.5
	CM-GW04-80	01/20/11	80	ND<1.7	ND<1.7	4.2	ND<1.7	35	2.3	ND<1.7	ND<1.7

#### **Explanation**

ft. bgs = feet below ground surface (approximate)

PCE = tetrachloroethene

TCE = trichloroethene

cis-12-DCE = cis-1,2-dichloroethene

111-TCA = 1,1,1-trichloroethane

11-DCE = 1,1-dichloroethene

11-DCA = 1,1-dichloroethane

112-TCA = 1,1,2-trichloroethane

CDS = carbon sidulfide

μg/Kg = micrograms per kilogram of soil

ND = not detected above reporting limit

Note: EPA 8260B VOCs not listed were not detected

## ATTACHMENT C SOIL BORING LOGS

			BORING	LOG A	AND MO			ELL CONSTRUC	Boring No.	CM-GW01			
	ct Nar S/O	ne: CWD	)				ct Location: 0 East Or	angethorpe Aver	nue, Fullerto	on, California	Project No. 2736		
Drillei Cas	r: cad					Туре	of Rig: E-75		Type/Size of 8.25 In O	Auger:	•		
Logg	ed By					Date	Drilled:		Checked By:		1		
A. F	lore			A NID 144	ELL DA		19/2011			o, PG, CHG	1 of 4		
			VAIEK	AND W	ELL DA	IA		Total Depth of Well Completed: Temporary Well					
Depth	n of W	ater F	irst Encoun	ntered: ≈	30 Feet			Screen Type, Dia., Int	erval: Sc	h 40 PVC, 2 in. 7	5-85 Feet		
Static	Dept	h of W	/ater in Wel	⊫≈80 F	eet			Slot Size and Filter Pa	ck: 0.02	0 in., #3 Sand			
otal	Depth	of Bo	oring: 85	Feet				Type/Size of Soil Sam	pler: 2 it	n. ID Split Barrel			
		soı	L/ROCK S	AMPLE D	ATA			DESCRIPTIO	N OF LITHOLO	OGY			
in Feet	al	ij.		Field PID (ppm)	Graphic Log	Depth in Feet	Standard	classification, texture	, relative moistu USCG designa		WELL/BORING GRAPHIC	i .	
Depth in	Interval	Blow Ct.	Time	Fiel G	Gra	Depth	And	With	Som	ie Trace			
_	_					-0	(40-50%)	(25-40%)	(10-25	5%) (0-10%)		+	
						-	Asphalt	Surface ≈8 In.				$\downarrow$	
						_					00000000		
						_	Pothole t	o 6 feet					
						_							
						<b>-</b> 5							
						_							
						_							
						_							
0						10	Begin lo	gging at 10 feet					
Ĭ	$\leq$	14 19	08:45	2.5			Dog io	gging at 10 100t					
ŀ		24					Sand (S\ moist	N), trace gravel, medi	um to coarse gr	ained, light brown,			
							moist						
												1	
5		<u>16</u> 19	00-50	4.0		[_	0 1 (0)						
э 	$\leq$	21	08:53	4.2		-15	moist	v), some gravei, medi	um to coarse g	rained, brown, slightly			
						-							
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0		14 22 20	08:57	2.0		-20	Sand (S\	N), some gravel, medi	ium to coarse g	rained, brown, dry			
ļ	$\leq$	20	00.57	2.0		-							
						-							
					ÌĦ	-							
ı										Environmental Sup	nort Technologi	<u>a_</u>	

MAS/OCWD   2020 East Orangethorpe Avenue, Fullerton, California   2736				BORING	LOG A	ND MOI		RING WELL CONSTRUC	TION LOG	Boring No.	CM-GW01		
Sand (SW), trace gravel, medium grained, light brown, slightly moist   Sand (SP), some silt, fine grained, light brown, slightly moist   Sand (SP), some silt, fine grained, light brown, slightly moist   Sand (SW), medium							,		nue Fullerton Ca	alifornia	Project No.		
Date Drillind:   Checked By:   M. Marello, P.G., CHG   2 of 4	Drille	r:		<u> </u>			Туре	of Rig:	Type/Size of Auger:		2700		
A. Flores										<u> </u>	1		
Standard classification, texture, elative moleture, density, stiffness, odor-staining, USCG designation  And And (40-60%) (25-40%) (10-25%) (0-10%)  25   12   13   12   12   12   12   12   12										G, CHG	2 of 4		
25   13   17   17   17   17   18   17   19   19   19   2.6   40   Sand (SP), some slit, fine grained, light brown, slightly moist   30   30   22   2.5   31   32   33   34   34   34   34   34   34	it.		sol	L/ROCK S	AMPLE D	ATA	÷	DESCRIPTIO	N OF LITHOLOGY				
25   13   17   17   17   17   18   17   19   19   19   2.6   40   Sand (SP), some slit, fine grained, light brown, slightly moist   30   30   22   2.5   31   32   33   34   34   34   34   34   34		/al	Ċ.		ld PID pm)	aphic -og	h in Fee			nsity, stiffness,		Description	
21	Dept	Interv	Blow	Time	Fie d)	g l	Dept					Desc	
35 Sand (SW), trace gravel, medium grained, light brown, slightly moist  40 11/18 09:19 2.6 40 Sand (SP), some silt, fine grained, light brown, slightly moist  45 Sand (SW), medium grained, light brown, slightly moist  58 Sand (SW), medium grained, light brown, slightly moist	- •25 -		13 17 21	09:01	2.8		- <b>-</b> 25 -	Sand (SM), some silt, fine to m	edium grained, brown,	slightly moist			
40 11 18 17 09:19 2.6 -40 Sand (SP), some silt, fine grained, light brown, slightly moist -45 Sand (SW), medium grained, light brown, slightly moist -45 Sand (SW), medium grained, light brown, slightly moist	- - - :30 -		30 25 25	09:09	4.3		- - - -30 -	Sand (SW), trace silt, medium (	grained, light brown, sl	ightly moist			
40 9:19 2.6 Sand (SP), some silt, fine grained, light brown, slightly moist  45 10 14 18 18 09:22 2.5 Sand (SW), medium grained, light brown, slightly moist	- - 35 - -		19 22 23	09:16	2.2		- - -35 -	Sand (SW), trace gravel, mediu	ım grained, light browr	n, slightly moist		o 85 Feet —	
	- -40 -		11 18 17	09:19	2.6		- - -40 -	Sand (SP), some silt, fine grain	ed, light brown, slightly	y moist		Bentonite Grout to	
	- - 45 -		10 14 18	09:22	2.5		- - •45 -	Sand (SW), medium grained, li	ght brown, slightly moi	st			
50 15 17 09:27 1.7 Sand (SW), medium grained, light brown, slightly moist	50		11 15 17	09:27	1.7		- - <b>-</b> 50	Sand (SW), medium grained, li	ght brown, slightly moi	st			

			BORING	LOG A	AND MOI		RING WELL CONSTRUCT	TION LOG	Boring No.	M-GW01	
	ect Nai		)				ct Location: 0 East Orangethorpe Avenu	ie Fullerton Ca	alifornia	Project No. 2736	
Drille	er:		<u> </u>			Туре	of Rig:	Type/Size of Auger:		2700	
	scad ged By						E-75 Drilled:	8.25 In OD HS Checked By:			
	Flore						19/2011	M. Marello, PG	a, CHG	3 of 4	
Ţ		SOI	L/ROCK S	AMPLE D	ATA	Ţ.	DESCRIPTION	OF LITHOLOGY			
ו in Feet	'al	Ċť.		Field PID (ppm)	Graphic Log	Depth in Feet	Standard classification, texture, r odor-staining, U	elative moisture, der ISCG designation	nsity, stiffness,	WELL/BORING GRAPHIC	Description
Depth in	Interval	Blow Ct.	Time	Fiel (p	9	Dept	And With (40-50%) (25-40%)	Some (10-25%)	Trace (0-10%)		Desc
- - -55 -		14 17 17	09:39	3,9		- -55	Sand (SW), trace gravel, medium moist	i to coarse grained, b	orown, slightly		
- - <b>-</b> 60 -		17 15 22	09:43	5.0		-60	Sand (SP), trace silt, fine grained	, brown, slightly mois	st		
- - -65 -		14 16 28	09:48	3.8		-65	Sand (SP), trace silt, fine grained	, brown, slightly mois	st		Grout to 85 Feet —
- - -70 -		<u>12</u> <u>14</u> 16	09:58	2.1		-70	Silt with clay (ML-CL), fine graine	d, olive-brown, moist			Bentonite Gro
- - •75 - -		13 14 16	10:10	6.0		- -75 -	Silt with clay (ML-CL), some sand	d, fine grained, olive-l	orown, moist		
- - •80 -		11 12 14	10:20	3.5		- - 80	Clay, some silt (CL), olive-brown,	wet			

		Omite	LOGA			RING WELL	C	CM-GW01			
Project I	Name: /OCWD					ct Location: 0 East Oranc	ethorpe Aven	ue, Fullerton, Ca	alifornia	Project No. 2736	
Oriller:					Type	of Rig:	,	Type/Size of Auger: 8.25 In OD HS			
Casca Logged	d By:				Date	E-75 Drilled:		Checked By:			
A. Flo		/DOOK 0	AMADLED	ATA	01/1	19/2011		M. Marello, PC	G, CHG	4 of 4	T
Feet	SOIL	HUCK S	AMPLE D		eet			OF LITHOLOGY			١,
_	हु <u>।</u>		Field PID (ppm)	Graphic Log	l ir	Standard clas	sification, texture, odor-staining, l	relative moisture, der JSCG designation	nsity, stiffness,	WELL/BORING GRAPHIC	10000
Depth in	Interval Blow Ct.	Time	Fie d)	ağ 1	Depth in Feet	And (40-50%)	With (25-40%)	Some (10-25%)	Trace (0-10%)		2
35 90 95								H 85 Feet - — — -			10 11 10 11 11 0 11 11 11 11

· ·			BORING	LOG A	AND MO			ELL CONSTRUC	CTION LOG	Boring No.	CM-GW02	
	ct Nar S/O(	ne: CWD	)			202		angethorpe Ave	nue, Fu <b>ll</b> erto	on, California	Project No. 2736	
Orille Cas						Type	of Rig: E-75	·	Type/Size of 8.25 In C	Auger:	•	
.ogg	ed By					Date	Drilled:		Checked By:			
۹. F	lore						21/2011		•	lo, PG, CHG	1 of 4	
		V	VATER	AND W	ELL DA	ГА		Total Depth of Well C	ompleted:	Temporary We	ell ≈85 Feet	
Depth	n of W	ater F	irst Encoun	itered: ≈	30 Feet			Screen Type, Dia., Int	erval: So	ch 40 PVC, 2 in. 7	75-85 Feet	
Static	Dept	h of W	/ater in Wel	l: ≈75 F	eet			Slot Size and Filter Pa	ack: 0.02	0 in., #3 Sand		
otal	Depth	of Bo	oring: 85	Feet								
±		soı	L/ROCK S	AMPLE D	ATA	<u> </u>		DESCRIPTIO	N OF LITHOLO	DGY		
n Feet		اند		PID (μ	hic D	Depth in Feet	Standard	l classification, texture			WELL/BORING	à.
Depth in	Interval	Blow Ct.	Time	Field PID (ppm)	Graphic Log	pth i	And	odor-staining, With	USCG designa, Son		GRAPHIC	ì
۵	☱	ă	<u></u> ⊨				(40-50%)	(25-40%)	(10-2			
'						-0	Aspnan	Surface ≈6 In.				
						-					**********	
						_	Pothole t	to 6 feet				
						_						
						_						<b>]</b> .
)						<del>-</del> 5						
						-						
						-						<b>)</b> .
						_						
												١
0						10	Regin lo	gging at 10 feet				
۱	$ \leq $	$\frac{\frac{8}{9}}{12}$	07:45	0.7		] '	Degin lo	gging at 10 leet				
	$\geq$	12					Sand (S	W) and trace gravel, m	nedium grained	, light brown, dry		
					21.00 m v v v	-						
						- 1						
						-						
5	$\langle$	$\frac{\frac{7}{9}}{12}$	07:48	0.8		-15						
٦	$\geq$	12	071.0	0.0		'	0 1/0	-) a				
						-	Sand (Si	P), fine to medium gra	linea, light brow	n, ary		
						<u> </u>						
						- 1						
						<u>.</u>						
20						-20						
٠.	eq	20 9 10	07:52	0.9		20						
		10	07102	0.3			Sand (S)	W), trace gravel, medi	um to coarse g	rained, brown, dry		
					50000	-						
						-						
						1					<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	8

			BORING	LOG A	AND MOI		RING WELL CONSTRU	CTION LOG	C	M-GW02	
	ect Na		)				ct Location: 0 East Orangethorpe Ave	anue Fullerton Co	alifornia	Project No. 2736	
Drille	er:		,			Туре	of Rig:	Type/Size of Auger:		2700	
	scad						E <b>-75</b> Drilled:	8.25 In OD HS Checked By:	•		
Α. Ι	Flore					01/2	21/2011	M. Marello, PC	G, CHG	2 of 4	
Feet		SOI	L/ROCK S		ATA	et	DESCRIPTION	ON OF LITHOLOGY			
Depth in Fe	rva	v Ct.	Φ	Field PID (ppm)	Graphic Log	Depth in Feet		g, USCG designation		WELL/BORING GRAPHIC	Description
Dep	Interval	Blow	Time	正	9	Dep	And With (40-50%) (25-40%)	Some (10-25%)	Trace (0-10%)		Des
- 25 - -	2	7 10 13	08:14	8.4		- -25 - -	Sand (SP), trace silt, fine grain	ned, light brown, slightly	moist		
30	7	8 8 12	08:16	0.8		-30 -	Sand (SW), trace gravel, fine t slightly moist	o medium grained, ligh	t brown,		
35	7	7 10 14	08:21	3.4		-35 -	Sand (SP), trace silt, fine grain	ned, light brown, slightly	, moist		Grout to 85 Feet —
- 40 - -	7	7 12 15	08:23	2.0		<b>-</b> 40	Sand (SW), some silt, fine to r	nedium grained, brown	, slightly moist		Bentonite Gro
- 45 - -	7	8 12 13	08:27	6.4		<b>-</b> 45 -	Sand (SW), some silt, fine gra	ined, light brown, slight	ly moist		
50		6 9 11	08:30	4.1		- -50	Sand (SP), fine grained, light l	orown, slightly moist			

			BORING	LOG	AND MOI			CONSTRUC	TION LOG	Boring No.	M-GW02	
	ct Nar S/O		)				ct Location:	nethorne Aver	nue, Fullerton, Ca	alifornia	Project No. 2736	
Drille	r:		<u>'</u>			Туре	of Rig:	gethorpe Aver	Type/Size of Auger:		2700	
	cad ed By						<b>E-75</b> Drilled:		8.25 In OD HS Checked By:	<b>)</b>	<u> </u>	
	lore						21/2011		M. Marello, PC	G, CHG	3 of 4	
)t		SOI	L/ROCK S	AMPLE D	DATA	. *		DESCRIPTIO	N OF LITHOLOGY			
h in Feet	/al	<u>ت</u>		Field PID (ppm)	Graphic Log	Depth in Feet	Standard cla		, relative moisture, der USCG designation	nsity, stiffness,	WELL/BORING GRAPHIC	Description
Depth in	Interval	Blow	Time	Fie G	p _	Dept	And (40-50%)	With (25-40%)	Some (10-25%)	Trace (0-10%)		Desc
- - -55 - -		7 11 15	08:35	14.2	T1717	-55 -	Sand (SW), fi	ne to medium grai	n, light brown, slightly	moist		
- 60 - -		7 7 16	08:40	1.9		- <b>-</b> 60 - -	Silt (ML), som	ne clay, trace sand	, fine grained, brown,	slightly moist		
65		5 8 14	08:46	1.6		-65 -	Sand (SP), tra	ace silt, fine graine	d, light brown, slightly	r moist		the Grount to 85 Feet —
- 70 - -		<u>9</u> 10 18	08:54	2.2	*· ··· · · · ·	-70 -	Silt (ML), som	ne clay, trace sand	, fine grained, olive-br	own, moist		Bentonite
- - 75 - -		14 18 21	08:58	1.64		- -75 -	Sand (SP), tra	ace silt, fine graine	d, brown, moist			
- - 80 -		10 14 16	09:08	2.4		- - -80	Sand (SW), tr	ace gravel, fine to	medium grained, brov	wn, moist		

	SC	OIL E	BORING	LOG A	ND	MON	VITC	RING WELL CONSTRUCT	TION LOG	Boring No.	и-GW02	
	ect Na S/O		)					ct Location: 0 East Orangethorpe Avent	ue Fullerton Ca	•	Project No. 2736	
Drille	er:						Туре	of Rig:	Type/Size of Auger:	morria	2700	
Logo	scad ged By	le ,					Date	E-75 Drilled:	8.25 In OD HS Checked By:			
	lore	s						21/2011	M. Marello, PG	, CHG	4 of 4	
e te		SO	IL/ROCK S	AMPLE D	ATA		eţ	DESCRIPTION	OF LITHOLOGY			
Depth in Feet	'al	ರ		Field PID (ppm)	aphic	Log	Depth in Feet	Standard classification, texture, odor-staining, L	relative moisture, den	sity, stiffness,	WELL/BORING GRAPHIC	Description
Depti	Interval	Blow Ct.	Time	Fiel G	ğ		Depti	And With (40-50%) (25-40%)	Some (10-25%)	Trace (0-10%)		Desc
		11/11/16	09:15	28.6				Silt (ML), some sand, trace clay,	,	· · · · · · · · · · · · · · · · · · ·		Bentonite Grout to 85 Feet —
<u> </u>									Env	Ironmental Sup	port Technologi	es

102	sc	)IL I	BORING	LOG A	ND MOI	NITO	RING WE	ELL CONSTRUCT	ION LOG	Boring No.	M-GW03	
	ect Nar S/O		)				ot Location: O Fast Or	angethorpe Avenu	ue Fullerton Ca	lifornia	Project No. 2736	
Drille	er:		-			Type o	of Rig:	<u>angemerpe / mem</u>	Type/Size of Auger: 8.25 In OD HS			
Log	scad ged By	:		_		Date D	Orilled:		Checked By:			
<u>M.</u>	Mare		PG, CH			•	21/2011		_		1 of 4	
			WATER	AND W	ELL DAT	Γ <b>A</b>		Total Depth of Well Con		nporary Well		
Dep	th of W	ater F	First Encoun	itered: ≈8	30 Feet			Screen Type, Dia., Inter	val: Sch 40 F	PVC, 2 in. 75	5-85 Feet	
Stati	c Dept	h of V	Vater in Wel	l: ≈76 F	eet			Slot Size and Filter Pack	c 0.020 in., :	#3 Sand		
Tota	l Depth		oring: 85					Type/Size of Soil Sampl	er: 2 in. ID S	Split Barrel		
et		so	IL/ROCK S			et		DESCRIPTION	OF LITHOLOGY			_
Depth in Feet	<u> </u>	:		Field PID (ppm)	Graphic Log	Depth in Feet	Standard	l classification, texture, r odor-staining, U	elative moisture, dens ISCG designation	sity, stiffness,	WELL/BORING GRAPHIC	Description
Depti	Interval	Blow Ct.	Time	Fiel G	Gre	Depth	And (40-50%)	With	Some (10-25%)	Trace (0-10%)	1	Desci
		<u>11</u>	08:16	1.9		-0  -  -	Pothole t					Bentonite Chip Seal — Concrete —
-10 - - -		18 22				-10  -  -  -		gging at 10 feet ded sand, some silt (SW	/-SM), light brown, sli	ghtly moist		out to 85 Feet —/
-15 - - - - -20		14 15 21 15 18 20	08:22 08:27	1.5		-15  -  -  -  -  -  -		nedium sand (SP-SW), li				Bentonite Grout to 85
_						<del>-</del>			South	Ironmental S	port Technologi	95

	BORING L	OG A	ND MOI		RING WELL CONSTRUCTION LOG	C	M-GW03	
Project Name: MAS/OCWD	1				t Location: ) East Orangethorpe Avenue, Fullerton, C	alifornia	Project No. 2736	
Driller:	,			Type		allionnia	2/30	
Cascade				CME	E-75 8.25 In OD HS			
Logged By: M. Marello, I	PG CHG			Date E	brilled: Checked By: 1/2011		2 of 4	
	L/ROCK SAN	MPLE D	ATA	101/2			2014	
Feet	·			eet	DESCRIPTION OF LITHOLOGY			_
들   ㅠ   ㅎ	Φ	Field PID (ppm)	Graphic Log	Depth in Feet	Standard classification, texture, relative moisture, de odor-staining, USCG designation		WELL/BORING GRAPHIC	Description
Depth Interva Blow (	Time	ш		Det	And With Some (40-50%) (25-40%) (10-25%)	Trace (0-10%)		Des
$\frac{12}{15}$	08:30	0.9		- -25 -	Well graded sand (SW), light brown, slightly moist			
$\frac{14}{16}$	08:36	2.2		- - -30 -	Well graded sand, trace gravel (SW), light-brown, slig	ghtly moist		
$\frac{14}{16}$	08:41	1.4		- - - -35 -	Fine to medium sand (SP-SM), light brown, slightly m	ooist		85 Feet —
40 \[ \frac{\frac{14}{18}}{22} \]	08:50	1.7		- - -40 - -	Fine to medium sand (SP-SM), light brown, slightly m	oist		Rentonite Grout to
45 \frac{\frac{17}{17}}{25}	08:53	1.8		- -45 -	Fine sand, trace silt (SP), light grayish-brown, slightly	moist		
$50 \qquad \frac{\frac{16}{24}}{\frac{27}{27}}$	08:57	1.8		- - -50	Well graded sand, trace silt (SW), light brown, slightly	/ moist		

			BORING	LOG A	AND MOI		RING WELL CONSTRUCTION LOG	Boring No.	M-GW03	
	ect Na		)				et Location: O East Orangethorpe Avenue, Fullerton,	California	Project No. 2736	
Drille		CVVL	,			Type	of Rig: Type/Size of Aug	ger:	2/30	
	scad ged By						E-75 8.25 In OD Drilled: Checked By:	HS		
			PG, CH	G			21/2011		3 of 4	
			L/ROCK S		ATA	[	DESCRIPTION OF LITHOLOGY	,		
וי r	<u>a</u>	Ċ.		Field PID (ppm)	Graphic Log	Depth in Feet	Standard classification, texture, relative moisture, odor-staining, USCG designation		WELL/BORING GRAPHIC	Description
Depth in	Interval	Blow	Time	Fiel G	, g	Depth	And With Some (40-50%) (25-40%) (10-25%)	Trace		Desc
- - •55 -	7	18 23 27	09:02	0.4		- - -55 -	Well graded sand, some silt (SW-SM), grayish-bro	own, moist		
- - ·60 -	7	12 19 16	09:09	1.9		- -60 -	Well graded sand (SW), light brown, slightly moist			
- - -65 -	7	14 17 22	09:15	1.2		-65 -	Fine sand with silt (SM), grayish-brown, slightly m	oist		Group to 85 East
- - ·70 -	7	16 18 25	09:20	900		- - -70 -	Very fine sand to coarse silt (SP-ML), light brown, dry	slightly moist to		Bentonite Gro
- 75 -	7	10 12 20	09:36	980		- -75 -	Well graded sand, some silt (SW-SM), moist			
- - 80 -		17 18 20	09:30	8,500		- - -80	Clay, some silt (CL), olive-gray, very moist			

SOIL BORING LOG AND MON	NITORING WELL CONSTRUCT	TION LOG	Boring No.	и-GW03	
Project Name: MAS/OCWD	Project Location: 2020 East Orangethorpe Avenue	uo Fullorton Ca	•	Project No. 2736	
Driller:	Type of Rig:	Type/Size of Auger:	IIIOITIIA	2730	
Cascade Logged By:	CME-75 Date Drilled:	8.25 In OD HS Checked By:			
M. Marello, PG, CHG	01/21/2011	,		4 of 4	
SOIL/ROCK SAMPLE DATA	DESCRIPTION	OF LITHOLOGY			
Depth in Feet Interval Blow Ct. Time Field PID (ppm) Graphic Log	Standard classification, texture, odor-staining, to the standard with (40.50%) (25.40%)	relative moisture, den: JSCG designation	sity, stiffness,	WELL/BORING GRAPHIC	Description
Interval Blow Ct. Field P (ppm) Graphi	And With	Some	Trace	GRAFIIIC	escri
	<u> </u>	(10-25%)	(0-10%)		
	Silt and clay, trace sand (ML-CL)	, olive-brown, very mo	olist		Bentonite Grout to 85 Feet —/
	-			port Technologi	

			BORING	LOG A	ND MO			ELL CONSTRUC	TION LOG	Boring No	CM-GW04	
	ct Nar S/O	ne: CWD	)				ct Location: 0 East Or	angethorpe Ave	nue, Fu <b>ll</b> erto	on, California	Project No. 2736	
Orille Cas						Туре	of Rig: E-75		Type/Size of 8.25 In C	Auger:		
مهر. ogg.	ed By	:				Date	Drilled:		Checked By			
۹. F	lore						20/2011	T	M. Marel	lo, PG, CHG	1 of 4	
		V	WATER	AND W	ELL DA	ГА		Total Depth of Well C	ompleted:	Temporary \	Well ≈85 Feet	
eptl	n of W	ater F	irst Encoun	ntered: ≈{	30 Feet			Screen Type, Dia., Int	erval: So	ch 40 PVC, 2 in	n. 75-85 Feet	
tatic	Dept	h of W	/ater in Wel	⊪ ≈72 F	eet			Slot Size and Filter Pa	ack: 0.02	20 in., #3 Sand		
otal	Depth	n of Bo	oring: 85	Feet				Type/Size of Soil San	npler: 2 i	n. ID Split Barr	el	
et		SOI	L/ROCK S	SAMPLE D	ATA	t t		DESCRIPTIO	N OF LITHOLO	OGY		
In reet	_	<del>,;</del>		Field PID (ppm)	Graphic Log	Depth in Feet	Standard	I classification, texture			s, WELL/BORING GRAPHIC	Э
Depin In	Interval	Blow Ct.	Time	Field (pp	Grag	epth	And	With	, USCG designa Son			
_	드	B	<u> </u>			-0	(40-50%)	(25-40%)	(10-2	5%) (0-10%	6)	_
							Asphalt :	Surface ≈6 In.				
						_						8
						_	Pothole t	to 6 feet				ğ
						-						
						<b>-</b> 5						
						_						
						_						
	$\leq$	7 14 55	08:15	1.0								
0	$\geq$	55	00.10	1.0		<del>-</del> 10	Begin lo	gging at 10 feet				
						-	Sand (SI	P), fine grained, light b	arown moiet			
						-	Sanu (Si	-), ime gramed, light t	orown, moist			
					1 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	_						
		40										
5	$\overline{}$	12 15 17	08:20	1.2		-15	Sand (S)	N), some gravel, light	brown aliabthy	moint		
5		17					Sanu (Si	v), some graver, light	brown, siigniiy	moist		
						-						
						-						
						-						
		9				-						
0	$\leq$	9 12 17	08:27	4.5		-20	Sand (S)	N), trace gravel, medi	um to coarse q	rained, light brown,		
		1/					slightly n		9	, 5,		
						<u> </u>						
						-						
				L	0.03.05643					Environmental	<u> </u>	<u> </u>

			BORING	LOG A	AND MOI		PRING WELL CONSTRUC	CTION LOG	Boring No.	M-GW04	
	ct Nar	<sub>me:</sub> CWD	)				ct Location: 0 East Orangethorpe Ave	nue Fullerton Ca	alifornia	Project No. 2736	
Drille	r:					Type	of Rig:	Type/Size of Auger:			
	cad						E-75	8.25 In OD HS	1		
	ed By lore						Drilled: 21/2011	Checked By: M. Marello, PC	CHG	2 of 4	
, i	10.0		L/ROCK S	AMPLE D	ATA	01/2		•	, OTTG	2011	Τ
ר Feet		_	·	<u>ا</u> (د	<u>5</u> E	Depth in Feet	Standard classification, texture		nsity, stiffness,	 WELL/BORING	1
Depth in	Interva	Blow Ct.	Time	Field PID (ppm)	Graphic Log	epth ir	odor-staining And With	, USCG designation Some	Trace	GRAPHIC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
۵	_ 		<u> </u>		12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	۵	(40-50%) (25-40%)	(10-25%)	(0-10%)		2
25		12 15 20	08:30	4.0		<b>-</b> 25 -	Sand (SW), fine to medium gra	ained, light brown, mois	t		
30		13 15 20	08:37	2.3		- - -30	Sand (SP), some silt, fine grain	ned, brown, slightly moi	st		
35		14 21 24	08:42	5.9		-35	Sand (SW), medium grained, li	ight brown, slightly moi	st		05 5-2-4
10		16 18 20	08:47	4.5		-40 -	Sand (SP), fine to medium grai	ined, light brown, slight	ly moist		The state of the s
ŀ5		15 17 18	08:58	3.7		- - 45 -	Sand (SP), trace silt, fine grain	ed, light brown, slightly	moist		
0		12 16 19	09:04	5.1		- -50	Sand (SP), some silt, fine grain	ned, light brown, slightl <u>y</u>	/ moist		
				1	For - 1.5	i l				<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	7

cade d By:	CWD	)						CI		
cade		•				ct Location: 0 East Orangethorpe Aven	ue Fullerton Ca	alifornia	Project No. 2736	
d By:	_				Type	of Rig:	Type/Size of Auger:		2700	
						E-75 Drilled:	8.25 In OD HS Checked By:			
						21/2011	M. Marello, PG	G, CHG	3 of 4	
	SOII	L/ROCK S	SAMPLE D	ATA	<u>.</u>	DESCRIPTION	I OF LITHOLOGY			
ভ	ij		Field PID (ppm)	Graphic Log	Depth in Feet	Standard classification, texture, odor-staining, l	relative moisture, den JSCG designation	nsity, stiffness,	WELL/BORING GRAPHIC	Description
Interv	Blow	Time	Fiel D	Gra	Depti	And With (40-50%) (25-40%)	Some (10-25%)	Trace (0-10%)		Desc
	18 20 20	09:08	2.4		- - -55 -	Sand (SP), trace silt, fine grained	d, light brown, slightly	moist		
	12 16 18	09:13	4.4		- - -60 -	Sand (SW), trace gravel, mediun	n grained, light brown	n, slightly moist		
	20 20 25	09:17	4.2		- - -65 -	Sand (SW), some gravel, mediur very moist	n to coarse grained, l	light brown,	6	Grout to 85 Feet —
	16 18 20	09:23	2.1		- - -70 -	Sand (SW) with trace gravel, fine	e to medium grained, i	moist		Bentonite Gro
	9 10 14	09:32	0.6		- - -75 -	Sand (SW) some silt, fine to med	dium grained, slightly	moist		
	<u>7</u> <u>9</u> 10	09:45	1.5		- - <b>-</b> 80 -	Clay with silt (CL-ML), fined grain	ned, olive-brown, very	v molst		
	Interval	18 20 20 20 20 25 16 18 20 9 10 14	18/20     09:08       20/20     09:13       18/18     09:13       20/20     09:17       25/25     09:23       9/10     09:32       14/14     09:32	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	18   20   20   20   21   4.4   -55   Sand (SP), trace silt, fine grained   20   20   25   25   25   25   25   25	18	18 20 09:08 2.4 -55 Sand (SP), trace slit, fine grained, light brown, slightly moist  10 09:13 4.4 -60 Sand (SW), trace gravel, medium grained, light brown, slightly moist  11 09:13 4.2 -65 Sand (SW), some gravel, medium to coarse grained, light brown, very moist  12 09:17 4.2 -65 Sand (SW) with trace gravel, fine to medium grained, moist  13 09:29 09:30 09:31 -70 Sand (SW) with trace gravel, fine to medium grained, moist  14 09:32 0.6 -75 Sand (SW) some silt, fine to medium grained, slightly moist	18

			OHING	LOGA	110 1110			. CONSTRUC		C	M-GW04	
Proje M/Δ	ct Na	<sub>me:</sub> CWD					ct Location: 0 Fast Orano	nethorne Aven	nue, Fullerton, C	alifornia	Project No. 2736	
Drille	r:					Туре	of Rig:	Journal De VAGI	Type/Size of Auger:			
Cas	cad ed By	<u>e</u>					E <b>-75</b> Drilled:		8.25 In OD HS Checked By:	<u> </u>		
A. F	lore						21/2011		M. Marello, Po	G, CHG	4 of 4	
#		SOIL	ROCK S	AMPLE D	ATA	- #		DESCRIPTIO	N OF LITHOLOGY			
Project MA. Drille Cass Logg A. F	a	. <u>0</u> c				Depth in Feet	Standard clas		relative moisture, de USCG designation	nsity, stiffness,	WELL/BORING GRAPHIC	ì
Dept	Interval	Blow	Time	Fiel (p	Graphic Log	Dept	And (40-50%)	With (25-40%)	Some (10-25%)	Trace (0-10%)	_	
							Water saturat	ed at 85 feet, no so	oil sample			
35						<del>-</del> 85			) OH 85 Feet - — — ·			
,,								20	77 66 7 661			
						-						
90						<b>-</b> 90						
						-						
						_						
) E						OF						
95						<del>-</del> 95						
						-						
						-						
100						-100						
						_						
105						<del>-</del> 105						
						-						
						-						
						-						
						L						

	sc	IL E	BORING	LOG A	ND MOI	NITO	RING WE	ELL CONSTRUCT	TON LOG	Boring No.	1-GW01A	
	ect Nar S/O(		 )				ect Location: 30 E Orano	gethorpe Avenue,	Fullerton, Califo	•	Project No. 2736	
Drille	er:					Type	of Rig:	<u>gouriorpo / (vorido, </u>	Type/Size of Auger:			
Logg	scad ged By	:					Drilled:		Sonic Pipe 8", 6 Checked By:	5,4		
<u>M.</u>	Mare		PG, CH				22/2011 -	02/23/2011 			1 of 3	
5			NATER .	AND WI	ELL DAT	ΓΑ		Total Depth of Well Con	npleted: Tem	porary Well		
Dept	h of W	ater F	irst Encoun	tered: ≈1	20 Feet	BGS	<b>;</b>	Screen Type, Dia., Inter	val: Sch 40 F	PVC, 2-Inch	ID 124'-134'	
Stati	c Dept	h of V	Vater in Well	∷ ≈118 l	Feet BGS	S		Slot Size and Filter Pack	«: 0.020", Filt	er Sock		
Tota	Depth		oring: ≈13				<u> </u>	Type/Size of Soil Sampl	ler: 4" Core E	Barrel x 10'		
et		SOI	L/ROCK S			eet		DESCRIPTION	OF LITHOLOGY			_
Depth in Feet	<u>8</u>	ぢ		Field PID (ppm)	Graphic Log	Depth in Feet	Standard	classification, texture, r odor-staining, U	relative moisture, dens JSCG designation	sity, stiffness,	WELL/BORING GRAPHIC	Description
Dept	Interval	Blow Ct.	Time	Fiel (p	Gra	Dept	And (40-50%)	With (25-40%)	Some (10-25%)	Trace (0-10%)	1	Desc
-0						-0	,	Pothole to 6 Feet		, ,		
_						_						
_						_					######################################	Concrete
-						_						S
-						_						Seal-
80	$\vdash \dashv$			0		-80						Chip S
-						_						
	$ \ /\  $				7////	-	82.0 - 85.0	Ft: Clay, some silt (CL)	ı, olive-brown, verv me	oist, verv stiff		Sentonite
-	/					-		· · · · · · · · · · · · · · · · · · ·	,,,,	, <b>,</b>		Ber
_	/					-						
85	$\vdash$			0		-85						Seal -
_				0		_	85.0 - 87.0	Ft: Clay, some silt (CL)	, olive-brown, very mo	oist, very stiff		rout S
ŀ	$ \ /\  $					-	87.0 - 89.0	Ft: Clay with fine sand,	, some silt (CL-SC), ol	ive-brown,		1 O I
<b>†</b>	/			8.0		-		moist, very stiff	, , , , , , , , , , , , , , , , , , , ,			Bentonite
ŀ						-	89.0 - 90.0	Ft: Sand with clay, son	ne silt (SC), olive-brov	vn, moist, very		Bent
90	$\vdash$			0		-90		stiff/hard Ft: Sand with clay, son	, ,	•		
ŀ						-		stiff/hard	, ,,			
ŀ	$ \ /\  $			0.1		-	91.0 - 95.0	Ft: Clay, some fine sar	nd and silt (CL), olive-	orown, moist.		
ŀ	/					-		stiff	, ,,	, ,		
ŀ				0.3		-						
95	$\vdash$					-95						
<b>†</b>				1.0			95.0 - 99.0	Ft: Clay, trace silt (CL-	CH), brown, moist, ve	rv stiff.		
<b>†</b>						-			ighness/plasticity, me			
<b> </b>	/			0.6		-		,,gui				
$\vdash$	<i></i>			1	_ <i>////_//</i>		l		Envi	ronmental Sup	port Technologi	ies

MAS/OCWD  Driller: Cascade Sonic Son		SC	IL E	BORING	LOG A	AND MOI			_ CONSTRUCT	ION LOG	Boring No.	1-GW01A	
Osloci Cascade  Conic Cascade  Sonic Sonic Pipe 8', 6", 4"  Date Drilled:  M. Marello, P.G., CHG  SOIL/ROCK SAMPLE DATA  DESCRIPTION OF LITHOLOGY  Standard classification, texture, relative moteture, density, stiffness, (0-10%)  GRAPHIC  Standard classification, texture, relative moteture, density, stiffness, (0-10%)  GRAPHIC  Standard classification, texture, relative moteture, density, stiffness, (0-10%)  Sone Trace  And With Some Trace  (0-50%) (0-10%)  Sone Trace  (0-10%)  Sone Sone  (10-25%)  Sone Trace  (10-50%)  Sone Trace  Sole Tra	Project			,					horne Avonue	Fullerton Califo	ornia	Project No.	
Date Dillillet   Date	Driller		J V V L	,			Туре	e of Rig:	norpe Avenue,	Type/Size of Auger:		2730	
M. Marello, P.G., CHG  SOLVROCK SAMPLE DATA  The solution of t	Cas										6", 4"		
Standard classification, texture, relative moisture, deneity, etitiness, oder-staining, USCG designation (25-40%) (10-25%) (0-10%) (20-10%	M. N			PG, CH	G				/23/2011	Checked by.		2 of 3	
100 0 0.5 0.8 100 Pt: Silt with clay, trace fine sand (ML), olive-brown, molet, soft on the sand of t	+		soı	L/ROCK S	AMPLE D	ATA	+		DESCRIPTION	OF LITHOLOGY			
100 0 0.5 0.8 100 Pt: Silt with clay, trace fine sand (ML), olive-brown, molet, soft on the sand of t	h in Fee	/al	<del>7</del>		ld PID ppm)	aphic -og	h in Fee	Standard cla			nsity, stiffness,		ription
100 0 0.5 0.8 100 Pt: Silt with clay, trace fine sand (ML), olive-brown, molet, soft on the sand of t	Dept	nten	Blow	Time	Fie	ے ق	Dept						Desc
100 100 - 103 Ft: Well graded sand and gravel (SW-GW), gray, slightly moist to moist, gravel to 3-inch diameter, semi-rounded to well rounded  103 - 105 Ft: Well graded sand and gravel with clay, some slit (SC,GC), gray, dry, very dense. Slight sweet solvent-like odor.  105 - 106 Ft: Well graded sand and gravel with clay, some slit (SC,GC), gray, dry, very dense, Slight sweet solvent-like odor.  106 - 107 Ft: Clay, trace sand (CL), brown, moist, very stiff (SC,GC), gray, dry, very dense, Slight sweet solvent-like odor.  106 - 107 Ft: Clay, trace sand and clay, some slit (GC-GW), light gray, dry, dense with sand and clay, some slit (GC-GW), light gray, dry, dense with sand sand (GW-GM), gray, dry, dense with sand sand (GW-GM), gray, dry, dense with sand sand (GW-GM), gray, dry, dense NOTE-Driller: =6" water in boring at 118 Feet 118 - 120 Ft: Gravel with clay, some sand and slit (GC), gray, dry, dense sand sand, some slit (GW-SW), brownish gray, slightly moist 120 - 124.5 Ft: Well graded sand, some slit and clay, some gravel (SW-SM), olive-gray, very moist to wet 125 - 130 Ft: Well Graded sand, some gravel, trace to some slit 125 - 130 Ft: Well Graded sand, some gravel, trace to some slit 125 - 130 Ft: Well Graded sand, some gravel, trace to some slit	-	$\overline{I}$		•	0.5	<del> </del>					· ,		
	- - -115- - - - -120- - -				0.8		-1105 -1110 -1115 -1200	100 - 103 Ft:  103 - 105 Ft:  105 - 106 Ft:  106 - 107 Ft:  107 - 110 Ft:  110 - 111 Ft:  111 - 115 Ft:  NOTE:Driller: ≈  118 - 120 Ft:  120 - 124.5 FT:	Well graded sand a moist to moist, grave to well rounded  Well graded sand a (SC,GC), gray, dry, solvent-like odor.  Well graded sand a (SC,GC), gray, dry, solvent-like odor.  Clay, trace sand (C  Gravel with sand ar gray, dry, dense  Clay, some gravel a medium stiff  Gravel with silt and  Gravel with silt and  Gravel with clay, so dense  6" water in boring at Gravel and sand, so slightly moist  Well graded sand, so slightly moist	and gravel (SW-GW), yel to 3-inch diameter and gravel with clay, some silt (GC and sand (CL-GC), old sand (GW-GM), gray the sand and silt (GC 118 Feet tome silt (GW-SW), browne silt and clay, some sil	gray, slightly r, semi-rounded  some silt weet some silt weet y stiff  C-GW), light ive-gray, moist, r, dry, dense  C), gray, dry, rownish gray,		Grout
<u> </u>	-  -							125 - 130 Ft:		-	some silt		

	SC	OIL E	BORING	LOG A	ND MOI	NITO	RING WELL CONSTRUCT	TION LOG	Boring No.	I-GW01A	
	ect Na		`				ct Location:	Full arton Califa	•	Project No.	
Drille	S/O	CVVL	,			Type	O E Orangethorpe Avenue, of Rig:	Fullerton, Calife Type/Size of Auger:	ornia	2736	
Ca	scad	е				Sor	nic	Sonic Pipe 8".	6", 4"		
	ged By <b>Mar</b> e		PG, CH	G			Drilled: 22/2011 - 02/23/2011	Checked By:		3 of 3	
et		sol	L/ROCK S	ı		eet	DESCRIPTION	OF LITHOLOGY			
Depth in Feet	<u> </u>	ぢ		Field PID (ppm)	Graphic Log	Depth in Feet	Standard classification, texture, r odor-staining, U	relative moisture, den JSCG designation	sity, stiffness,	WELL/BORING GRAPHIC	Description
Dept	Interval	Blow	Time	Fiel (p	Gre L	Dept	And With (40-50%) (25-40%)	Some (10-25%)	Trace (0-10%)		Desc
							125 - 130 Ft: Well Graded sand, (SW), olive-brown, v  130 - 135 Ft: Well Graded sand, (SW), olive-brown, v	some gravel, trace to wet some gravel, trace to	some silt		Bentonite Grout Seal
								Env	ironmental Sup	port Technologi	es

roie	ct Nan	ne:				Proie	ct Location:	ELL CONSTRUCT		OI	VI-GW02A Project No.	
MÁS	S/OC		1					angethorpe Aven			2736	
Orille Cas	r: scade	9				Son	of Rig: iC		Type/Size of A			
ogg	ed By:					Date	Drilled:		Checked By:		4 -40	_
4. F	lore		/ATED	A N I D N I	ELL DAT		04/2011	T. 15 (W. 11.0	•	o, PG, CHG	1 of 3	_
		V	VAIER	AND W	ELL DAT	IA		Total Depth of Well Cor	mpleted:	Temporary We	<b>II</b>	
Depth	h of W	ater Fi	rst Encoun	tered: ≈	110' BGS	3		Screen Type, Dia., Inter	rval: Sc	h 40 PVC, 2 in. 1	21'- 131'	
Static	Deptl	n of W	ater in Well	ı: ≈116'	BGS			Slot Size and Filter Pac	k: 0.02'	', fitter sock		
Γotal	Depth	of Bo	ring: ≈ <b>1</b> 3	36'				Type/Size of Soil Samp	ler: 4" (	core barrel x 10'		_
			_/ROCK S		ATA			DESCRIPTION				Т
Feet					<u>.0</u>	Depth in Feet	Standard	classification, texture,			_     WELL/BORING	
Depth in	Interval	Blow Ct.	Φ	Field PID (ppm)	Graphic Log	th in		odor-staining, L	JSCG designat	tion	GRAPHIC	
Dep	Inte	Blo	Time	Ē,	ο σ	Dep	And (40-50%)	With (25-40%)	Som (10-25			١,
)						-0						T
						-	Dotholo t	a C fact				
						-	Pothole t				********	
						_	Begin lo	gging at 80 feet				4
												1
						00	00.04.54	Class acres acres trace		anine biob alandaie.		<b>1</b> .
30						<del> </del> 80	80-81 Ft: (CH)	Clay, some sand, trac	e siit, brown, n	noist, nigh plasticity		
						†						
	П					├	Q1 QQ E+	Clay, trace sand, brov	vn moiet high	placticity (CH)		
	П			2.9		-	01-0011	Olay, trace saria, brov	vii, moist, mgn	plasticity (OTI)		
	П					1-						ا (
35			09:37			1 -85						
				1.9		[ ]						1
						]						
						1						
					77.27	1	88-90 Ft	Well graded sand, sor	me gravel, bro	wn, moist (SW)		
				1.2		-						1
0						90	90-91 Ft	Sand, fine to medium	grained, brow	n, moist (SM)		
				1.0		-	91-92 Ft:	Silt with clay, trace sa	nd, brown, slig	htly moist (ML)		
						<u> </u>		Clay, some silt, high p	_			
			10:01				moist (C		naotiony, roadi	or brown, olightly		
	/		10.01			[						
	/			3.2		7						
95						95		Clay, trace sand, high	plasticity, oliv	e brown, slightly moist		
				2.6		}	(CH)					
	$ \ /\  $		10:15			<b>↓</b> │	96-98 Ft: (CL)	Clay with sand, some	gravel, low pla	sticity, slightly moist		1
				2.7		1	· ->					1
	/										<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	1

			ORING	LOG A	AND MOI		RING WELL CONSTRUC	TION LOG	Boring No.	I-GW02A	
Project MAS		ne: CWD					et Location: D East Orangethorpe Aver	Project No. 2736			
Driller Cas	:						of Rig:	2700			
Logged By:							Orilled:	Sonic Pipe 8", Checked By:			
A. Flores  SOIL/ROCK SAMPLE DATA						03/0	4/2011	M. Marello, PG	, CHG	2 of 3	
Feet		<del></del>					DESCRIPTION OF LITHOLOGY  Standard classification, texture, relative moisture, density, stiffness,				l c
th in	Interval	Blow Ct.	Φ	Field PID (ppm)	Graphic Log	Depth in Feet	odor-staining,	USCG designation		WELL/BORING GRAPHIC	Description
Dek	Inte	B	Time	<u>ш</u>		Deg	And With (40-50%) (25-40%)	Some (10-25%)	Trace (0-10%)	***************************************	Des
- ·100 - - -				0.7		- -100 - - -	98-99 Ft: Sand, fine grained, son 99-100 Ft: Well graded sand wit 100-104 Ft: Well graded sand, s moist (SW)	h gravel, grayish brow	n, dry (SW)		
- ·105 - - -			12:09	0.2		- <b>-</b> 105 - - -	104-107 Ft: Well graded sand at (SW-GW)  107-110 Ft: Clay, some sand, so plasticity (CH)				
Project MAS Driller Cass Logge A. F 1000			10.00	1.5		- -110 - - -	110-112 Ft: Sand, fine grained, some standard of the standard stan	trace gravel, brown, sli	ghtly moist (SM)	4	nite Grout to 136 Feet —
-115 - - -			12:28	2.3		-115 - - - -	118-120 Ft: Sand, fine grained, moist (SM)	some gravel, grayish b	rown, slightly		Benton
120 <sup>-</sup> - - -			01:15	0.8		-120 - - - -	120-125 Ft: Well graded sand w wet (SW)	ith gravel, trace silt, oli	ve brown,		
125 - -				0.4		<b>-</b> 125	125-128 Ft: Sand, fine grained, brown, moist (SM)			port Technologi	

)ro:-			UNING	LOG A	NIND IVIO			ELL CONSTRUC	IION LOG	CN	/I-GW03A	
	ct Nan	ne: CWD					ect Location: 80 E Orano	gethorpe Avenue,	Fullerton, C	California	Project No. 2736	
Orille							pe of Rig: Type/Size of Auger:				•	
	ed By:						Drilled:		Checked By:	30,0,4		
M. Marello, PG, CHG 03/04								03/05/2011			1 of 3	
		W	ATER	AND W	ELL DAT	Α		Total Depth of Well Cor	mpleted:	Temporary Wel	l 133 ft.	
Depth of Water First Encountered: ≈120 Feet BGS								Screen Type, Dia., Inte	rval: Sch	n 40 PVC, 2-Inch	ID 123'-133'	
Static Depth of Water in Well: ≈118 Feet BGS								Slot Size and Filter Pac	k: 0.020	", Filter Sock		
Total Depth of Boring: ≈135 Feet								ore Barrel x 10'				
ţ.		SOIL	/ROCK S	AMPLE D	ATA	Feet		DESCRIPTION	OF LITHOLOG	GY		
Depth in Feet	<u>_</u>	ت ت		Field PID (ppm)	Graphic Log	in Fe	Standard	classification, texture,	relative moistur JSCG designati		WELL/BORING GRAPHIC	
Dept	Interval	Blow	Time	Fiel (p	Grand L	Depth in	And (40-50%)	With (25-40%)	Some (10-259	e Trace	_	
$\neg$			-			-0	(40 0070)	Pothole to 6 Feet	(10 20	(0 1070)		+
						L						1
						L						1
												1
						_						
0	-			1.8	7////	-80	80.0-82.0 F	t: Clay, trace fine sand	(CL), olive brow	vn, moist, very stiff		
	/					_						
							82.0 - 85.0	Ft: Clay, with fine sand	l. some silt (CL-	SC), olive-brown.		
			10:20					moist, stiff	,	,,		
	/				1151							30
	/				11/1	_						1
5				2.5	111/1	-85	85.0 - 87.0	Ft: Clay, with fine sand moist, stiff. Increas				
					1///	-		moior, sum moreas	Jo III GIAY COLITE	к мит форит		
					4,11	L	87.0 - 91.0	Ft: Clay, some fine sa	nd, (CL), brown	, moist, stiff		
	$\parallel$							-				
0	+		10:45			-90						
				3.0		F	91.0 - 95.0	Ft: Clay (CL-CH), brov				
						ļ.		plasticity, med. tou	ignness, high di	y strength.		
						L						
5	$\neg$			2,1	/// //	-95	95.0 - 98.0 F	Ft: Well graded sand moist, hard	with gravel (SW	), light brown, slightly		
						-		moiot, nara				
	/					L						
			11:00				98.0 - 100.0	Ft: Gravel with silt and	d clay some car	nd (GC) light		
	7		11.00				50.0 - 100.0	brownish gray, dry		ia (GO) light	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	1

			BORING	LOG	AND MOI		RING WELL CONSTRU	CTION LOG	Boring No.	1-GW03A	
Project MAS			)				Location:  E Orangethorpe Avenu	e Fullerton Califo	ornia	Project No. 2736	
Driller	7					Type	Type of Rig: Type/Size of Auger:				
Cas	caa ed By:	<u>e</u>				Son Date					
M. Marello, PG, CHG							4/2011 - 03/05/2011	Checked By:		2 of 3	
et		SOI	L/ROCK S		DATA	ĕ	DESCRIPTION	ON OF LITHOLOGY			
Depth in Feet	val	Blow Ct.	o.	Field PID (ppm)	Graphic Log	Depth in Feet		g, USCG designation		WELL/BORING GRAPHIC	Description
Dep	Interval	Blo	Time	Ē)	٥	Dep	And With (40-50%) (25-40%)	Some (10-25%)	Trace (0-10%)		Des
- ·100 - - -	/ 			2.1		-100 -	98.0 - 100.0 Ft: Gravel with silt brownish gray, of 100 - 102 Ft: No Recovery  102 - 105 Ft: Clay with silt, so	t and clay, some sand ( dry, hard	GC) light		
- ·105- - -	$\frac{1}{1}$		13:15	0.4		- -105 - -	105 - 107 Ft: Gravel with clay 107 - 110 Ft: Well graded san				
- - 110- -				0.9		- - -110 -	to moist  110 - 115 Ft: Well graded san (SW-GW),brown	d and gravel, some silt, ish gray, moist at 112 ft		•	Grout Seal —
- - -115 <sup>4</sup> - - -			13:30	1.5		- - -115 - - -	115 - 122 Ft: Well graded san brownish gray, v		y (SC-GC),		Bentonite Gr
·120- - - - - ·125-			13:50	1.5		-120 - - - - -	122 - 125 Ft: Silt, trace clay (M				
-			14:45						vironmental Sup		

	sc	OIL E	BORING	LOG A	ND MOI	NITO	RING WELL CONSTRUCT	Boring No.	I-GW03A		
	ect Na		`				ct Location:	Project No.			
Dril	\S/O	UVVL	)			2230 E Orangethorpe Avenue, Fullerton, Califo Type of Rig: Type/Size of Auger:			ornia 2736		
Č	scad	е				Sonic Pipe 8".			6", 4"		
	ged By <b>Mar</b> e		PG, CH	G		Date Drilled: Checked By: 03/04/2011 - 03/05/2011				3 of 3	
et		SOIL/ROCK SAMPLE DATA					DESCRIPTION	OF LITHOLOGY			
Depth in Feet	ष्ठ	Ċ.	ime Field PID (ppm) Graphic Log			Depth in Feet	Standard classification, texture, re odor-staining, U	sity, stiffness,	WELL/BORING GRAPHIC	Description	
Depti	Interval	Blow	Time	Fiel G)	Gra	Deptl	And With (40-50%) (25-40%)	Some (10-25%)	Trace (0-10%)		Desc
90   133   133   134   135   1		N8	LE 14:55			-130 	(40-50%) (25-40%)  127 - 130 Ft: Well Graded sand, s  130 - 132 Ft: Well Graded sand, s  132 - 135 Ft: Well Graded sand, s	(10-25%) some gravel(SW), ligi	(0-10%) Int brown, wet		Bentonite Grout Seal — De
-						_					
								Env	ronmental Sup	port Technologi	es

	sc	OIL E	BORING	LOG A	ND MOI	NITO	RING WE	ELL CONSTRUCT	TION LOG	Boring No.	1-GW04A	
	ect Na		)			,	ect Location: 60 E Orano	gethorpe Avenue, Fullerton, California			Project No. 2736	
Drille	er:					Type	of Rig:	<del>Journal po 7 Worldo,</del>	Type/Size of Auger:			
	scad ged By					Sor Date	Drilled:		Sonic Pipe 8", (	o"		
<u>M.</u>	Mare	ello,	PG, CH	<u> </u>		02/2	24/2011 -	02/25/2011			1 of 3	
5		\	VATER	AND W	ELL DAT	Α		Total Depth of Well Cor	mpleted: Ten	nporary Well		
Dept	th of W	/ater F	irst Encoun	tered: ≈1	20 Feet	BGS	<b>.</b>	Screen Type, Dia., Inter	rval: Sch 40 I	PVC, 2-Inch	ID 123'-133'	
Stati	c Dept	th of W	/ater in Well	: ≈122	Feet BG	S		Slot Size and Filter Pac	k: 0.020", Filt	er Sock		
Tota	l Deptl	h of Bo	oring: ≈13	35 Feet				Type/Size of Soil Samp	ler: 4" Core E	Barrel x 10 <sup>t</sup>		
et		SOI	L/ROCK S		1	eet		DESCRIPTION	OF LITHOLOGY			_
Depth in Feet	/al	ರ		Field PID (ppm)	Graphic Log	Depth in Feet	Standard	classification, texture, odor-staining, l	relative moisture, den: JSCG designation	sity, stiffness,	WELL/BORING GRAPHIC	Description
Dept	Interval	Blow Ct.	Time	Fie (F	G.	Dept	And (40-50%)	With (25-40%)	Some (10-25%)	Trace (0-10%)		Desc
-0						-0		Pothole to 6 Feet				
-						-						
-											######################################	Concrete
-										Š		
-						-						Seal -
80					7777	-80						Chip S
-						-						
<u> </u>	/		10:45			-	80.0 - 85.0		Sentonite			
-	/					-		high toughness, me strength	y, mgm ary		Ber	
-	/					_						
85	$\vdash$					-85						<u>                                      </u>
_	$  \  $					_	85.0 - 87.5	Ft: Clay with silt (CL), I strength	brown, stiff, moist to n	nedium-dry		rout Sea
F	/		11:05			- -	87.5 - 88.5	Ft: Clay, trace silt (CL- dry strength	CH), brown, moist, ve	ry stiff, high		J Θ I
-						-	88.5 - 90.0	Ft: Clay with silt (CL), I	brown, moist, very stif	f		Sentonite
90						-90						] "
						_	90.0 - 92.0	Ft: Fine sand with silt,	some clay (SM), brow	n, very moist		
- -							92.0 - 96.0	Ft: Clay with silt (CL), l	brown, medium stiff, n	noist		
<b>-</b> 95 - - -			11:25			<b>-</b> 95 - - -	96.0 - 100	Ft: Clay (CL-CH), brow toughness, mediur	vn, moist, very stiff, months to high plasticity, high			
	Ц				V////		l		Env	ronmental Sup	port Technologi	les

			BORING	LOG A	AND MOI			CONSTRUCT	ION LOG	Boring No.	1-GW04A	
Proje	ct Nar S/O		<b>1</b>				ect Location: O F Orangeth	orne Avenue	Fullerton, Califo	ornia	Project No. 2736	
Drille	r:					Туре	of Rig:	orpe Avenue,	Type/Size of Auger:		2700	
Cas	cad ed By	<u>e</u>				Sor	nic Drilled:		Sonic Pipe 8",	6"	1	
			PG, CH	G			24/2011 - 02/2	25/2011	Спескеа ву.		2 of 3	
			L/ROCK S		ATA				OF LITHOLOGY			
ı in Feet	al	Ct.		Field PID (ppm)	Graphic Log	Depth in Feet	Standard clas	sification, texture, r	relative moisture, der	nsity, stiffness,	WELL/BORING GRAPHIC	Description
Depth in	Interval	Blow (	Time	Fiel (p	Gran	Depth	And (40-50%)	With (25-40%)	Some (10-25%)	Trace (0-10%)		Desci
-100 - - -			13:55	0	<b>200</b>	-100 -	100 - 101 Ft: 101 - 102.5 Ft:	toughness, medic strength Clay (CL-CH), bro toughness, medic strength Clay with silt, som moist, brown, medic	wn, moist, very stiff, im to high plasticity, wn, moist, very stiff, im to high plasticity, he sand, trace gravel dium stiff to soft some sand (GC), oliv	high dry medium to high high dry (CL), very		
•105 - -			14:10	0		-105 - -		Well graded sand brown, moist	, some gravel (SW),	light brown to		
- - -110 - -				0 0		-110 -		moist	some clay (GC), gra some clay (GC), gra		•	nite Grout Seal —
- •115 -			14:40	0		- -115 -	113 - 117 Ft:	Well graded sand	and gravel (SW-GW	), brown, moist		Bentonite
-				0			117 - 118 Ft:	Clay with silt, som	ne sand (CL-ML), oliv	e-brown, moist		
- ·120				0.1 0.5	IIIII	- -120	119 - 119.5 Ft: 119.5 - 120 Ft:	Fine sand, some s Silt and clay, som moist	r and sand (GW-GC), silt (SP-SM), light bro e fine sand (ML-CL), , some fine gravel (S	own, moist olive-brown,		
- - -				0		<del>-</del> -	120.5 - 121.5 Ft:	Clay, some silt (C	L), olive-brown, very  L), olive-brown, very	moist, stiff		
·125 - -			15:20	0		-125		Well graded sand olive-brown, wet	and gravel, trace cla	ay (SW-GW), vironmental Sup		

1102		sc	OIL E	BORING	LOG A	ND MOI	NITC	PRING WELL CONSTRUCTION LOG	Boring No.	1-GW04A	
/20/c0	Proje		ne: CWE	)				ect Location: 50 E Orangethorpe Avenue, Fullerton, Cal	•	Project No. 2736	
1102-4	Drille							of Rig: Type/Size of Aug	er:	•	
7 - OZ -	Logg	ed By	:	PG, CH	G.		Date	Drilled: Checked By: 24/2011 - 02/25/2011	, 0	3 of 3	
-0000		viaic		L/ROCK S		ATA		DESCRIPTION OF LITHOLOGY		0 01 0	
-0g CIVI	in Fee		نبر		B (m	ohic G	in Fee	Standard classification, texture, relative moisture, of	lensity, stiffness,	WELL/BORING	otion
Sorling	Depth in Feet	Interval	Blow Ct.	Time	Field PID (ppm)	Graphic Log	Depth in Feet	odor-staining, USCG designation And With Some	Trace	GRAPHIC	Description
102-		<u>-</u> T	В	T	0		_	(40-50%) (25-40%) (10-25%) 128 - 128.5 Ft: Gravel with clay, some sand and sil	(0-10%)		
all o	-						_	olive-brown, wet 128.5 - 130 Ft: Gravel and well graded sand, trace	clay and silt		
e-visia	130				0		-130	(GW-SW), olive-brown, wet 130 - 130.5 Ft: Gravel and well graded sand, trace	clay and silt		
	-			15:45	0		_	(GW-SW), olive-brown, wet 130.5 - 132 Ft: Silt with fine sand (ML-SM), light bro			
galloli	-				0		_	132 - 133 Ft: Medium to fine sand with silt (SM), I 133 - 135 Ft: Silt, trace clay (ML), light brown, we			
INGS!	-						<u> </u>				Seal
nwale	-						_				rout
) Carour	135				0	ЩЩ	-135				Bentonite Grout Seal
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Ī					_		_		nvironmental Sup	port Technologi	es

# ATTACHMENT C LABORATORY REPORTS FOR SOILS ANALYSES



January 27, 2011

Mr. Michael Marello
Environmental Support Technologies
360 Goddard
Irvine, California 92618

RE: 2230 E. Orangethrope Ave., Fullerton CA.

Enclosed are the results of analyses for soil samples received by Environmental Support Technologies laboratory on 01/20/11 08:47. The analyses were performed according to the prescribed method as outlined by EPA 8260B. If you have any questions concerning this report, please feel free to contact Project Manager.

Sincerely,

# Dien Nguyen

Dien Nguyen Senior Chemist

Environmental Support Technologies laboratories are certified by the California Department of Health Services (CDHS), Environmental Laboratory Accreditation Program (ELAP) No's. 1996, 2511, and 2767.

360 Goddard, Irvine, California 92618 Telephone: (949) 679-9500 Fax: (949) 679-9501



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Analyzed
CM-GW01-10	2A12001-01	Soil	19-Jan-11 08:45	20-Jan-11 12:55
CM-GW01-20	2A12001-02	Soil	19-Jan-11 08:57	20-Jan-11 13:21
CM-GW01-30	2A12001-03	Soil	19-Jan-11 09:09	20-Jan-11 13:47
CM-GW01-40	2A12001-04	Soil	19-Jan-11 09:19	20-Jan-11 14:15
CM-GW01-50	2A12001-05	Soil	19-Jan-11 09:27	20-Jan-11 14:42
CM-GW01-60	2A12001-06	Soil	19-Jan-11 09:43	20-Jan-11 15:09
CM-GW01-70	2A12001-07	Soil	19-Jan-11 09:58	20-Jan-11 15:36



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-10 (2A12001-01) Soil	Sampled: 01/19/11 08:45	Analyzed: 01/2	0/11 12:55						
1,1,1,2-Tetrachloroethane	ND	3.0	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
1,1,1-Trichloroethane	ND	3.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	3.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	3.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.0	"	"	"	"		"	
2,2-Dichloropropane	ND	3.0	"	"	"	"		"	
2-Chlorotoluene	ND	3.0	"	"	"	"		"	
4-Chlorotoluene	ND	3.0	"	"	"	"		"	
Benzene	ND	3.0	"	"	"	"		"	
Bromobenzene	ND	3.0	"	"	"	"	"	"	
Bromochloromethane	ND	3.0	"	"	"	"	"	"	
Bromodichloromethane	ND	3.0	"	"	"	"		"	
Bromoform	ND	3.0	"	"	"	"	"	"	
Bromomethane	ND	3.0	"	"	"	"	"	"	
Carbon disulfide	ND	3.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.0	"	"	"	"	"	"	
Chlorobenzene	ND	3.0	"	"	"	"	"	"	
Chloroethane	ND	3.0	"	"	"	"	"	"	
Chloroform	ND	3.0	"	"	"	"	"	"	
Chloromethane	ND	3.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	3.0	"	"	"	"		"	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-10 (2A12001-01) Soil	Sampled: 01/19/11 08:45	Analyzed: 01/20/	11 12:55						
cis-1,3-Dichloropropene	ND	3.0	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
Dibromochloromethane	ND	3.0	"	"	"	"	"	"	
Dibromomethane	ND	3.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.0	"	"	"	"	"	"	
Ethylbenzene	ND	3.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.0	"	"	"	"	"	"	
Isopropylbenzene	ND	3.0	"	"	"	"	"	"	
Methylene Chloride	ND	3.0	"	"	"	"	"	"	
Naphthalene	ND	3.0	"	"	"	"	"	"	
n-Butylbenzene	ND	3.0	"	"	"	"	"	"	
n-Propylbenzene	ND	3.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.0	"	"	"	"	"	"	
Styrene	ND	3.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	3.0	"	"	"	"	"	"	
Toluene	ND	3.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	3.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.0	"	"	"	"	"	"	
Trichloroethene	ND	3.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.0	"	"	"	"	"	"	
Vinyl Chloride	ND	3.0	"	"	"	"	"	"	
Xylenes (total)	ND	8.9	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.0 %	75-1.	25	"	"	"	"	
Surrogate: Toluene-d8		100 %	75-1.	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %	75-1.	25	"	"	"	"	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-20 (2A12001-02) Soil	Sampled: 01/19/11 08:57	Analyzed: 01/2	0/11 13:21						
1,1,1,2-Tetrachloroethane	ND	2.4	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.4	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.4	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.4	"	"	"	"	"	"	
Benzene	ND	2.4	"	"	"	"	"	"	
Bromobenzene	ND	2.4	"	"	"	"	"	"	
Bromochloromethane	ND	2.4	"	"	"	"	"	"	
Bromodichloromethane	ND	2.4	"	"	"	"	"	"	
Bromoform	ND	2.4	"	"	"	"	"	"	
Bromomethane	ND	2.4	"	"	"	"	"	"	
Carbon disulfide	8.0	2.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.4	"	"	"	"	"	"	
Chlorobenzene	ND	2.4	"	"	"	"	,,	"	
Chloroethane	ND	2.4	"	"	"	"	,,	"	
Chloroform	ND	2.4	"	"	"	"	"	"	
Chloromethane	ND	2.4	,,	"	,,	,,	,,	"	
cis-1,2-Dichloroethene	ND	2.4	,,	,,	"	"	,,	"	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-20 (2A12001-02) Soil	Sampled: 01/19/11 08:57	Analyzed: 01/20	)/11 13:21						
cis-1,3-Dichloropropene	ND	2.4	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
Dibromochloromethane	ND	2.4	"	"	"	"	"	"	
Dibromomethane	ND	2.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.4	"	"	"	"	"	"	
Ethylbenzene	ND	2.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.4	"	"	"	"	"	"	
Isopropylbenzene	ND	2.4	"	"	"	"	"	"	
Methylene Chloride	ND	2.4	"	"	"	"	"	"	
Naphthalene	ND	2.4	"	"	"	"	"	"	
n-Butylbenzene	ND	2.4	"	"	"	"	"	"	
n-Propylbenzene	ND	2.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.4	"	"	"	"	"	"	
Styrene	ND	2.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.4	"	"	"	"	"	"	
Tetrachloroethene	3.8	2.4	"	"	"	"	"	"	
Toluene	ND	2.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.4	"	"	"	"	"	"	
Trichloroethene	ND	2.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.4	"	"	"	"	"	"	
Vinyl Chloride	ND	2.4	"	"	"	"	"	"	
Xylenes (total)	ND	7.3	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	75-1	25	"	"	"	"	
Surrogate: Toluene-d8		118 %	75-1	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.2 %	75-1	25	"	"	"	"	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-30 (2A12001-03) Soil	Sampled: 01/19/11 09:09	Analyzed: 01/2	0/11 13:47						
1,1,1,2-Tetrachloroethane	ND	1.9	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.9	"	"	"	"		"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"		"	
1,2-Dichloroethane	ND	1.9	"	"	"	"		"	
1,2-Dichloropropane	ND	1.9	"	"	"	"		"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"		"	
1,3-Dichloropropane	ND	1.9	"	"	"	"		"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Bromobenzene	ND	1.9	"	"	"	"	"	"	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
Carbon disulfide	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	,,	,,	,,	"	"	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-30 (2A12001-03) Soil	Sampled: 01/19/11 09:09	Analyzed: 01/20/	11 13:47						
cis-1,3-Dichloropropene	ND	1.9	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
Methylene Chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
Vinyl Chloride	ND	1.9	"	"	"	"	"	"	
Xylenes (total)	ND	5.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91.8 %	75-12	25	"	"	"	"	
Surrogate: Toluene-d8		101 %	75-12	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	75-12	25	"	"	"	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-40 (2A12001-04) Soil	Sampled: 01/19/11 09:19	Analyzed: 01/2	0/11 14:15						
1,1,1,2-Tetrachloroethane	ND	2.2	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.2	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
Benzene	ND	2.2	"	"	"	"	"	"	
Bromobenzene	ND	2.2	"	"	"	"	"	"	
Bromochloromethane	ND	2.2	"	"	"	"	"	"	
Bromodichloromethane	ND	2.2	"	"	"	"	"	"	
Bromoform	ND	2.2	"	"	"	"	"	"	
Bromomethane	ND	2.2	"	"	"	"	"	"	
Carbon disulfide	ND	2.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.2	"	"	"	"	"	"	
Chlorobenzene	ND	2.2	"	"	"	"	"	"	
Chloroethane	ND	2.2	"	"	"	"	"	"	
Chloroform	ND	2.2	"	"	"	"	"	"	
Chloromethane	ND	2.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.2	,,	,,	,,	,,	,,	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-40 (2A12001-04) Soil	Sampled: 01/19/11 09:19	Analyzed: 01/20	0/11 14:15						
cis-1,3-Dichloropropene	ND	2.2	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
Dibromochloromethane	ND	2.2	"	"	"	"	"	"	
Dibromomethane	ND	2.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.2	"	"	"	"	"	"	
Isopropylbenzene	ND	2.2	"	"	"	"	"	"	
Methylene Chloride	ND	2.2	"	"	"	"	"	"	
Naphthalene	ND	2.2	"	"	"	"	"	"	
n-Butylbenzene	ND	2.2	"	"	"	"	"	"	
n-Propylbenzene	ND	2.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.2	"	"	"	"	"	"	
Styrene	ND	2.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.2	"	"	"	"	"	"	
Tetrachloroethene	ND	2.2	"	"	"	"	"	"	
Toluene	ND	2.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.2	"	"	"	"	"	"	
Trichloroethene	ND	2.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.2	"	"	"	"	"	"	
Vinyl Chloride	ND	2.2	"	"	"	"	"	"	
Xylenes (total)	ND	6.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		94.6 %	75-1	25	"	"	"	"	
Surrogate: Toluene-d8		100 %	75-1	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.7 %	75-1	25	"	"	"	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-50 (2A12001-05) Soil	Sampled: 01/19/11 09:27	Analyzed: 01/2	0/11 14:42						
1,1,1,2-Tetrachloroethane	ND	2.4	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.4	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.4	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.4	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.4	"	"	"	"		"	
1,2-Dichlorobenzene	ND	2.4	"	"	"	"		"	
1,2-Dichloroethane	ND	2.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.4	"	"	"	"		"	
1,3,5-Trimethylbenzene	ND	2.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.4	"	"	"	"		"	
1,3-Dichloropropane	ND	2.4	"	"	"	"		"	
1,4-Dichlorobenzene	ND	2.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.4	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.4	"	"	"	"	"	"	
Benzene	ND	2.4	"	"	"	"	"	"	
Bromobenzene	ND	2.4	"	"	"	"	"	"	
Bromochloromethane	ND	2.4	"	"	"	"	"	"	
Bromodichloromethane	ND	2.4	"	"	"	"	"	"	
Bromoform	ND	2.4	"	"	"	"	"	"	
Bromomethane	ND	2.4	"	"	"	"	"	"	
Carbon disulfide	ND	2.4	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.4	"	"	"	"	"	"	
Chlorobenzene	ND	2.4	"	"	"	"	"	"	
Chloroethane	ND	2.4	"	"	"	"	"	"	
Chloroform	ND	2.4	"	"	"	"	"	"	
Chloromethane	ND	2.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.4	"	,,	,,	,,	"	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-50 (2A12001-05) Soil	Sampled: 01/19/11 09:27	Analyzed: 01/20	/11 14:42						
cis-1,3-Dichloropropene	ND	2.4	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
Dibromochloromethane	ND	2.4	"	"	"	"	"	"	
Dibromomethane	ND	2.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.4	"	"	"	"	"	"	
Ethylbenzene	ND	2.4	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.4	"	"	"	"	"	"	
Isopropylbenzene	ND	2.4	"	"	"	"	"	"	
Methylene Chloride	ND	2.4	"	"	"	"	"	"	
Naphthalene	ND	2.4	"	"	"	"	"	"	
n-Butylbenzene	ND	2.4	"	"	"	"	"	"	
n-Propylbenzene	ND	2.4	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.4	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.4	"	"	"	"	"	"	
Styrene	ND	2.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.4	"	"	"	"	"	"	
Tetrachloroethene	ND	2.4	"	"	"	"	"	"	
Toluene	ND	2.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.4	"	"	"	"	"	"	
Trichloroethene	ND	2.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.4	"	"	"	"	"	"	
Vinyl Chloride	ND	2.4	"	"	"	"	"	"	
Xylenes (total)	ND	7.1	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	75-1.	25	"	"	"	"	
Surrogate: Toluene-d8		104 %	75-1.	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	75-1.	25	"	"	"	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-60 (2A12001-06) Soil	Sampled: 01/19/11 09:43	Analyzed: 01/2	0/11 15:09						
1,1,1,2-Tetrachloroethane	ND	2.1	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.1	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.1	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
Benzene	ND	2.1	"	"	"	"	"	"	
Bromobenzene	ND	2.1	"	"	"	"	"	"	
Bromochloromethane	ND	2.1	"	"	"	"	"	"	
Bromodichloromethane	ND	2.1	"	"	"	"	"	"	
Bromoform	ND	2.1	"	"	"	"	"	"	
Bromomethane	ND	2.1	"	"	"	"	"	"	
Carbon disulfide	ND	2.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.1	"	"	"	"	"	"	
Chlorobenzene	ND	2.1	"	"	"	"	"	"	
Chloroethane	ND	2.1	"	"	"	"	"	"	
Chloroform	ND	2.1	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-60 (2A12001-06) Soil	Sampled: 01/19/11 09:43	Analyzed: 01/20/	/11 15:09						
cis-1,3-Dichloropropene	ND	2.1	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
Dibromochloromethane	ND	2.1	"	"	"	"	"	"	
Dibromomethane	ND	2.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.1	"	"	"	"	"	"	
Ethylbenzene	ND	2.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.1	"	"	"	"	"	"	
Isopropylbenzene	ND	2.1	"	"	"	"	"	"	
Methylene Chloride	ND	2.1	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
n-Butylbenzene	ND	2.1	"	"	"	"	"	"	
n-Propylbenzene	ND	2.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.1	"	"	"	"	"	"	
Styrene	ND	2.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.1	"	"	"	"	"	"	
Tetrachloroethene	ND	2.1	"	"	"	"	"	"	
Toluene	ND	2.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.1	"	"	"	"	"	"	
Trichloroethene	ND	2.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.1	"	"	"	"	"	"	
Vinyl Chloride	ND	2.1	"	"	"	"	"	"	
Xylenes (total)	ND	6.3	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.4 %	75-12	25	"	"	"	"	
Surrogate: Toluene-d8		101 %	75-12	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	75-12	25	"	"	"	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-70 (2A12001-07) Soil	Sampled: 01/19/11 09:58	Analyzed: 01/2	0/11 15:36						
1,1,1,2-Tetrachloroethane	ND	1.7	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	2.6	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"		"	
2,2-Dichloropropane	ND	1.7	"	"	"	"		"	
2-Chlorotoluene	ND	1.7	"	"	"	"		"	
4-Chlorotoluene	ND	1.7	"	"	"	"		"	
Benzene	ND	1.7	"	"	"	"	"	"	
Bromobenzene	ND	1.7	"	"	"	"	"	"	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
Carbon disulfide	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.7	"	"	"	"		"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW01-70 (2A12001-07) Soil	Sampled: 01/19/11 09:58	Analyzed: 01/20/1	11 15:36						
cis-1,3-Dichloropropene	ND	1.7 ı	ug/kg	1	21A2001	01/20/11	01/20/11	EPA 8260B	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
Methylene Chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	2.1	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Trichloroethene	ND	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
Vinyl Chloride	ND	1.7	"	"	"	"	"	"	
Xylenes (total)	ND	5.1	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		93.9 %	75-12	?5	"	"	"	"	
Surrogate: Toluene-d8		102 %	75-12	?5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.5 %	75-12		"	"	"	"	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

## **Volatile Organic Compounds - Quality Control**

### **Environmental Support Technologies**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Datak	21	1 2001	- Volatiles

Blank (21A2001-BLK1)				Prepared & Analyzed: 01/20/11
1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg	
1,1,1-Trichloroethane	ND	2.0	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	
1,1,2-Trichloroethane	ND	2.0	"	
1,1,2-Trichloro-trifluoroethane	ND	2.0	"	
1,1-Dichloroethane	ND	2.0	"	
,1-Dichloroethene	ND	2.0	"	
1,1-Dichloropropene	ND	2.0	"	
,2,3-Trichlorobenzene	ND	2.0	"	
1,2,3-Trichloropropane	ND	2.0	"	
1,2,4-Trichlorobenzene	ND	2.0	"	
,2,4-Trimethylbenzene	ND	2.0	"	
,2-Dibromo-3-chloropropane	ND	2.0	"	
,2-Dibromoethane	ND	2.0	"	
,2-Dichlorobenzene	ND	2.0	"	
,2-Dichloroethane	ND	2.0	"	
,2-Dichloropropane	ND	2.0	"	
,3,5-Trimethylbenzene	ND	2.0	"	
,3-Dichlorobenzene	ND	2.0	"	
,3-Dichloropropane	ND	2.0	"	
,4-Dichlorobenzene	ND	2.0	"	
,2-Dichloropropane	ND	2.0	"	
2-Chlorotoluene	ND	2.0	"	
-Chlorotoluene	ND	2.0	"	
Benzene	ND	2.0	"	
Bromobenzene	ND	2.0	"	
Bromochloromethane	ND	2.0	"	
Bromodichloromethane	ND	2.0	"	
Bromoform	ND	2.0	"	
Bromomethane	ND	2.0	"	
Carbon disulfide	ND	2.0	"	
Carbon tetrachloride	ND	2.0	"	
Chlorobenzene	ND	2.0	"	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

### Volatile Organic Compounds - Quality Control Environmental Support Technologies

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (21A2001-BLK1)				Prepared & Ana	Prepared & Analyzed: 01/20/11
Chloroethane	ND	2.0	ug/kg		
Chloroform	ND	2.0	"		
Chloromethane	ND	2.0	"		
cis-1,2-Dichloroethene	ND	2.0	"		
cis-1,3-Dichloropropene	ND	2.0	"		
Dibromochloromethane	ND	2.0	"		
Dibromomethane	ND	2.0	"		
Dichlorodifluoromethane	ND	2.0	"		
Ethylbenzene	ND	2.0	"		
Hexachlorobutadiene	ND	2.0	"		
Isopropylbenzene	ND	2.0	"		
Methylene Chloride	ND	2.0	"		
Naphthalene	ND	2.0	"		
n-Butylbenzene	ND	2.0	"		
n-Propylbenzene	ND	2.0	"		
p-Isopropyltoluene	ND	2.0	"		
sec-Butylbenzene	ND	2.0	"		
Styrene	ND	2.0	"		
tert-Butylbenzene	ND	2.0	"		
Tetrachloroethene	ND	2.0	"		
Toluene	ND	2.0	"		
trans-1,2-Dichloroethene	ND	2.0	"		
trans-1,3-Dichloropropene	ND	2.0	"		
Trichloroethene	ND	2.0	"		
Trichlorofluoromethane	ND	2.0	"		
Vinyl Chloride	ND	2.0	"		
Xylenes (total)	ND	6.0	"		
Surrogate: Dibromofluoromethane	46.0		"	50.0	50.0 92.1
Surrogate: Toluene-d8	51.2		"	50.0	50.0 102
Surrogate: 4-Bromofluorobenzene	46.1		"	50.0	50.0 92.2



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

### Volatile Organic Compounds - Quality Control Environmental Support Technologies

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

LCS (21A2001-BS1)				Prepared & Ana	lyzed: 01/20/11		
1,1,1,2-Tetrachloroethane	49.7	2.0	ug/kg	50.0	99.4	74-129	
1,1,1-Trichloroethane	45.8	2.0	"	50.0	91.6	81-124	
1,1,2,2-Tetrachloroethane	56.5	2.0	"	50.0	113	61-125	
1,1,2-Trichloroethane	47.5	2.0	"	50.0	95.0	77-118	
1,1,2-Trichloro-trifluoroethane	52.4	2.0	"	50.0	105	85-115	
1,1-Dichloroethane	51.1	2.0	"	50.0	102	83-117	
1,1-Dichloroethene	51.0	2.0	"	50.0	102	85-116	
1,1-Dichloropropene	45.7	2.0	"	50.0	91.5	80-116	
1,2,3-Trichlorobenzene	59.3	2.0	"	50.0	119	85-118	QL-I
1,2,3-Trichloropropane	50.9	2.0	"	50.0	102	64-122	
1,2,4-Trichlorobenzene	59.3	2.0	"	50.0	119	85-115	QL-H
1,2,4-Trimethylbenzene	78.7	2.0	"	50.0	157	85-115	QL-H
1,2-Dibromo-3-chloropropane	57.6	2.0	"	50.0	115	36-148	
1,2-Dibromoethane	79.2	2.0	"	50.0	158	85-115	QL-H
1,2-Dichlorobenzene	66.7	2.0	"	50.0	133	85-115	QL-H
1,2-Dichloroethane	46.8	2.0	"	50.0	93.6	82-118	
1,2-Dichloropropane	52.3	2.0	"	50.0	105	85-115	
1,3,5-Trimethylbenzene	81.5	2.0	"	50.0	163	85-115	QL-H
1,3-Dichlorobenzene	67.4	2.0	"	50.0	135	85-115	QL-H
1,3-Dichloropropane	50.8	2.0	"	50.0	102	83-116	
1,4-Dichlorobenzene	65.4	2.0	"	50.0	131	85-115	QL-H
2,2-Dichloropropane	52.0	2.0	"	50.0	104	71-144	
2-Chlorotoluene	46.8	2.0	"	50.0	93.5	85-115	
4-Chlorotoluene	70.4	2.0	"	50.0	141	85-115	QL-I
Benzene	43.5	2.0	"	50.0	87.0	85-115	
Bromobenzene	53.3	2.0	"	50.0	107	85-115	
Bromochloromethane	63.6	2.0	"	50.0	127	81-117	QL-H
Bromodichloromethane	55.9	2.0	"	50.0	112	80-121	
Bromoform	57.5	2.0	"	50.0	115	53-145	
Bromomethane	46.9	2.0	"	50.0	93.8	75-123	
Carbon disulfide	49.4	2.0	"	50.0	98.9	78-125	
Carbon tetrachloride	55.0	2.0	"	50.0	110	83-125	
Chlorobenzene	45.8	2.0	"	50.0	91.7	85-115	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

### Volatile Organic Compounds - Quality Control Environmental Support Technologies

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

LCS (21A2001-BS1)				Prepared & Anal	lyzed: 01/20/11		
Chloroethane	59.5	2.0	ug/kg	50.0	119	63-145	
Chloroform	52.2	2.0	"	50.0	104	82-120	
Chloromethane	50.9	2.0	"	50.0	102	71-128	
cis-1,2-Dichloroethene	51.8	2.0	"	50.0	104	81-122	
cis-1,3-Dichloropropene	55.5	2.0	"	50.0	111	85-116	
Dibromochloromethane	55.9	2.0	"	50.0	112	76-116	
Dibromomethane	54.3	2.0	"	50.0	109	83-117	
Dichlorodifluoromethane	49.5	2.0	"	50.0	99.0	75-118	
Ethylbenzene	44.5	2.0	"	50.0	89.0	83-115	
Hexachlorobutadiene	92.6	2.0	"	50.0	185	84-131	QL-I
Isopropylbenzene	50.6	2.0	"	50.0	101	85-115	
Methylene Chloride	56.6	2.0	"	50.0	113	85-119	
Naphthalene	77.3	2.0	"	50.0	155	58-121	QL-I
n-Butylbenzene	45.4	2.0	"	50.0	90.8	85-117	
n-Propylbenzene	43.5	2.0	"	50.0	87.0	85-115	
p-Isopropyltoluene	79.0	2.0	"	50.0	158	85-115	QL-I
sec-Butylbenzene	79.0	2.0	"	50.0	158	85-115	QL-I
Styrene	55.5	2.0	"	50.0	111	85-115	
tert-Butylbenzene	75.0	2.0	"	50.0	150	85-115	QL-I
Tetrachloroethene	45.2	2.0	"	50.0	90.4	70-139	
Toluene	46.3	2.0	"	50.0	92.6	77-115	
trans-1,2-Dichloroethene	47.6	2.0	"	50.0	95.2	85-115	
trans-1,3-Dichloropropene	54.9	2.0	"	50.0	110	77-121	
Trichloroethene	47.3	2.0	"	50.0	94.7	79-123	
Trichlorofluoromethane	67.4	2.0	"	50.0	135	63-151	
Vinyl Chloride	57.4	2.0	"	50.0	115	85-116	
Xylenes (total)	125	6.0	"	150	83.3	79-115	
Surrogate: Dibromofluoromethane	50.4		"	50.0	101	75-125	
Surrogate: Toluene-d8	53.7		"	50.0	107	75-125	
Surrogate: 4-Bromofluorobenzene	40.1		"	50.0	80.2	75-125	



Carbon tetrachloride

Chlorobenzene

**Environmental Support Technologies** 

360 Goddard Project Number: EST2736

Reported: Irvine, California 92618 Project Manager: Mr. Michael Marello 27-Jan-11 11:28

Reporting

### **Volatile Organic Compounds - Quality Control Environmental Support Technologies**

Project: 2230 E. Orangethrope Ave., Fullerton CA.

Source

Spike

%REC

RPD

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 21A2001 - Volatiles										
LCS Dup (21A2001-BSD1)				Prepared &	& Analyzed	: 01/20/11				
1,1,1,2-Tetrachloroethane	49.9	2.0	ug/kg	50.0		99.9	74-129	0.482	20	
1,1,1-Trichloroethane	42.4	2.0	"	50.0		84.8	81-124	7.76	20	
1,1,2,2-Tetrachloroethane	55.7	2.0	"	50.0		111	61-125	1.36	20	
1,1,2-Trichloroethane	46.6	2.0	"	50.0		93.2	77-118	1.91	20	
1,1,2-Trichloro-trifluoroethane	48.3	2.0	"	50.0		96.6	85-115	8.06	20	
1,1-Dichloroethane	48.3	2.0	"	50.0		96.6	83-117	5.67	20	
1,1-Dichloroethene	50.2	2.0	"	50.0		100	85-116	1.66	20	
1,1-Dichloropropene	45.5	2.0	"	50.0		91.0	80-116	0.482	20	
1,2,3-Trichlorobenzene	52.4	2.0	"	50.0		105	85-118	12.3	20	
1,2,3-Trichloropropane	50.6	2.0	"	50.0		101	64-122	0.631	20	
1,2,4-Trichlorobenzene	52.4	2.0	"	50.0		105	85-115	12.3	20	
1,2,4-Trimethylbenzene	75.2	2.0	"	50.0		150	85-115	4.50	20	QL-H
1,2-Dibromo-3-chloropropane	56.4	2.0	"	50.0		113	36-148	2.14	20	
1,2-Dibromoethane	75.2	2.0	"	50.0		150	85-115	5.21	20	QL-H
1,2-Dichlorobenzene	66.2	2.0	"	50.0		132	85-115	0.782	20	QL-H
1,2-Dichloroethane	47.4	2.0	"	50.0		94.8	82-118	1.32	20	
1,2-Dichloropropane	52.2	2.0	"	50.0		104	85-115	0.344	20	
1,3,5-Trimethylbenzene	77.8	2.0	"	50.0		156	85-115	4.72	20	QL-H
1,3-Dichlorobenzene	67.3	2.0	"	50.0		135	85-115	0.208	20	QL-H
1,3-Dichloropropane	48.7	2.0	"	50.0		97.4	83-116	4.22	20	
1,4-Dichlorobenzene	64.0	2.0	"	50.0		128	85-115	2.20	20	QL-H
2,2-Dichloropropane	49.8	2.0	"	50.0		99.6	71-144	4.25	20	
2-Chlorotoluene	46.6	2.0	"	50.0		93.2	85-115	0.300	20	
4-Chlorotoluene	68.8	2.0	"	50.0		138	85-115	2.18	20	QL-H
Benzene	43.7	2.0	"	50.0		87.4	85-115	0.367	20	
Bromobenzene	54.4	2.0	"	50.0		109	85-115	1.89	20	
Bromochloromethane	66.4	2.0	"	50.0		133	81-117	4.34	20	QL-H
Bromodichloromethane	53.6	2.0	"	50.0		107	80-121	4.27	20	
Bromoform	58.4	2.0	"	50.0		117	53-145	1.62	20	
Bromomethane	50.6	2.0	"	50.0		101	75-123	7.59	20	
Carbon disulfide	50.0	2.0	"	50.0		100	78-125	1.09	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

2.0

2.0

54.1

45.0

50.0

50.0

108

90.0

85-115

1.65

1.85

20

20



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

Reporting

### Volatile Organic Compounds - Quality Control Environmental Support Technologies

Spike

Source

%REC

RPD

Analyte	Result	Reporting Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit	Notes
Batch 21A2001 - Volatiles										
LCS Dup (21A2001-BSD1)				Prepared &	k Analyzed	01/20/11				
Chloroethane	60.4	2.0	ug/kg	50.0		121	63-145	1.47	20	
Chloroform	47.8	2.0	"	50.0		95.5	82-120	8.92	20	
Chloromethane	56.3	2.0	"	50.0		113	71-128	10.1	20	
cis-1,2-Dichloroethene	55.0	2.0	"	50.0		110	81-122	5.84	20	
cis-1,3-Dichloropropene	58.3	2.0	"	50.0		117	85-116	4.92	20	QL-H
Dibromochloromethane	57.2	2.0	"	50.0		114	76-116	2.33	20	
Dibromomethane	55.8	2.0	"	50.0		112	83-117	2.72	20	
Dichlorodifluoromethane	50.3	2.0	"	50.0		101	75-118	1.56	20	
Ethylbenzene	44.1	2.0	"	50.0		88.1	83-115	0.949	20	
Hexachlorobutadiene	84.7	2.0	"	50.0		169	84-131	8.96	20	QL-H
Isopropylbenzene	48.7	2.0	"	50.0		97.4	85-115	3.87	20	
Methylene Chloride	57.8	2.0	"	50.0		116	85-119	2.20	20	
Naphthalene	69.1	2.0	"	50.0		138	58-121	11.3	20	QL-H
n-Butylbenzene	41.3	2.0	"	50.0		82.5	85-117	9.51	20	QL-H
n-Propylbenzene	42.2	2.0	"	50.0		84.4	85-115	2.99	20	QL-H
p-Isopropyltoluene	74.4	2.0	"	50.0		149	85-115	6.07	20	QL-H
sec-Butylbenzene	74.9	2.0	"	50.0		150	85-115	5.35	20	QL-H
Styrene	54.6	2.0	"	50.0		109	85-115	1.60	20	
tert-Butylbenzene	73.9	2.0	"	50.0		148	85-115	1.42	20	QL-H
Tetrachloroethene	43.8	2.0	"	50.0		87.5	70-139	3.19	20	
Toluene	43.9	2.0	"	50.0		87.9	77-115	5.27	20	
trans-1,2-Dichloroethene	49.1	2.0	"	50.0		98.2	85-115	3.10	20	
trans-1,3-Dichloropropene	54.4	2.0	"	50.0		109	77-121	0.805	20	
Trichloroethene	44.6	2.0	"	50.0		89.1	79-123	6.05	20	
Trichlorofluoromethane	66.4	2.0	"	50.0		133	63-151	1.49	20	
Vinyl Chloride	57.7	2.0	"	50.0		115	85-116	0.522	20	
Xylenes (total)	124	6.0	"	150		82.3	79-115	1.21	20	
Surrogate: Dibromofluoromethane	52.9		"	50.0		106	75-125			
Surrogate: Toluene-d8	54.4		"	50.0		109	75-125			
Surrogate: 4-Bromofluorobenzene	41.0		"	50.0		82.0	75-125			



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:28

#### **Notes and Definitions**

QL-H The spike recovery was out high for the LCS and/or the LCSD; however the analyte was not detected in any of the analyzed

samples.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



January 27, 2011

Mr. Michael Marello
Environmental Support Technologies
360 Goddard
Irvine, California 92618

RE: 2020 East Orangethorpe Avenue, Fullerton

Enclosed are the results of analyses for soil samples received by Environmental Support Technologies laboratory on 01/21/11 14:55. The analyses were performed according to the prescribed method as outlined by EPA 8260B. If you have any questions concerning this report, please feel free to contact Project Manager.

Sincerely,

# Dien Nguyen

Dien Nguyen Senior Chemist

Environmental Support Technologies laboratories are certified by the California Department of Health Services (CDHS), Environmental Laboratory Accreditation Program (ELAP) No's. 1996, 2511, and 2767.

360 Goddard, Irvine, California 92618 Telephone: (949) 679-9500 Fax: (949) 679-9501



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Analyzed
CM-GW02-10	2A12102-01	Soil	21-Jan-11 07:45	21-Jan-11 16:33
CM-GW02-20	2A12102-02	Soil	21-Jan-11 07:52	21-Jan-11 17:00
CM-GW02-30	2A12102-03	Soil	21-Jan-11 08:16	21-Jan-11 17:26
CM-GW02-40	2A12102-04	Soil	21-Jan-11 08:23	21-Jan-11 17:52
CM-GW02-50	2A12102-05	Soil	21-Jan-11 08:30	21-Jan-11 18:19
CM-GW02-60	2A12102-06	Soil	21-Jan-11 08:40	21-Jan-11 18:45
CM-GW02-70	2A12102-07	Soil	21-Jan-11 08:54	21-Jan-11 19:12
CM-GW03-10	2A12102-08	Soil	21-Jan-11 08:19	24-Jan-11 14:51
CM-GW03-20	2A12102-09	Soil	21-Jan-11 08:27	24-Jan-11 15:18
CM-GW03-30	2A12102-10	Soil	21-Jan-11 08:36	24-Jan-11 15:44
CM-GW03-40	2A12102-11	Soil	21-Jan-11 08:50	24-Jan-11 16:11
CM-GW03-50	2A12102-12	Soil	21-Jan-11 08:57	24-Jan-11 16:40
CM-GW03-60	2A12102-13	Soil	21-Jan-11 09:09	24-Jan-11 17:08
CM-GW03-70	2A12102-14	Soil	21-Jan-11 09:20	24-Jan-11 17:35
CM-GW03-80	2A12102-15	Soil	21-Jan-11 09:30	24-Jan-11 18:03



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-10 (2A12102-01) Soil	Sampled: 01/21/11 07:45	Analyzed: 01/2	1/11 16:33						
1,1,1,2-Tetrachloroethane	ND	1.9	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Bromobenzene	ND	1.9	"	"	"	"	"	"	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
Carbon disulfide	2.1	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"		"	"	"	"	
Chloromethane	ND	1.9	"	,,	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

CM-GW02-10 (2A12102-01) Soil         Sampled: 01/21/11 07:45         Analyzed: 01/21/11 16:33           cis-1,3-Dichloropropene         ND         1.9         ug/kg         1         21A2101         01/21/11         01/21/11         EPA 8260B           Dibromochloromethane         ND         1.9         "	nalyte	Result	Reporting Limit U	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dibromochloromethane   ND   1.9   "   "   "   "   "   "   "   "   "	4-GW02-10 (2A12102-01) Soil	Sampled: 01/21/11 07:45	Analyzed: 01/21/1	1 16:33						
Dibromomethane   ND   1.9   "   "   "   "   "   "   "   "   "	-1,3-Dichloropropene	ND	1.9 u	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dichlorodifluoromethane   ND   1.9   "   "   "   "   "   "   "   "   "	bromochloromethane	ND	1.9	"	"	"	"	"	"	
Ethylbenzene   ND   1.9   "   "   "   "   "   "   "   "   "	bromomethane	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene   ND   1.9   " " " " " " " " " " " " " " " " " "	chlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	rylbenzene	ND	1.9	"	"	"	"	"	"	
Methylene Chloride         ND         1.9         "	xachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Naphthalene         ND         1.9         "	propylbenzene	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene         ND         1.9         "	thylene Chloride	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene         ND         1.9         "	phthalene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	Butylbenzene	ND	1.9	"	"	"	"	"	"	
Sec-Butylbenzene   ND   1.9   "   "   "   "   "   "   "   "   "	Propylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene         ND         1.9         "	sopropyltoluene	ND	1.9	"	"	"	"	"	"	
Styrene         ND         1.9         "	-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene         ND         1.9         "		ND	1.9	"	"	"	"	"	"	
Toluene         ND         1.9         "	t-Butylbenzene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene         ND         1.9         "<	trachloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene         ND         1.9         "	luene	ND	1.9	"	"	"	"	"	"	
Trichloroethene         ND         1.9         "	ns-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane         ND         1.9         " <td>ns-1,3-Dichloropropene</td> <td>ND</td> <td>1.9</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	ns-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Vinyl Chloride         ND         1.9         "	chloroethene	ND	1.9	"	"	"	"	"	"	
Xylenes (total)         ND         5.7         "	chlorofluoromethane	ND	1.9	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane 88.3 % 75-125 " " " "	nyl Chloride	ND	1.9	"	"	"	"	"	"	
	lenes (total)	ND	5.7	"	"	"	"	"	"	
	rogate: Dibromofluoromethane		88.3 %	75-12	5	"	"	"	"	
Surrogate: 101uene-a8 102 % /5-125 " " " " "	rrogate: Toluene-d8		102 %	75-12	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene 93.4 % 75-125 " " " "	O					"	"	"	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-20 (2A12102-02) Soil	Sampled: 01/21/11 07:52	Analyzed: 01/2	1/11 17:00						
1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	,,	,,	,,	,,	,,	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-20 (2A12102-02) Soil	Sampled: 01/21/11 07:52	Analyzed: 01/21/	/11 17:00						
cis-1,3-Dichloropropene	ND	2.0	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
Methylene Chloride	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Styrene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	ND	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Trichloroethene	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
Vinyl Chloride	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.9	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	75-1.	25	"	"	"	"	
Surrogate: Toluene-d8		100 %	75-1.	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	75-1.	25	"	"	"	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-30 (2A12102-03) Soil	Sampled: 01/21/11 08:16	Analyzed: 01/2	1/11 17:26						
1,1,1,2-Tetrachloroethane	ND	2.3	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.3	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.3	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.3	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.3	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.3	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.3	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.3	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.3	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.3	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.3	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.3	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.3	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.3	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.3	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.3	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.3	"	"	"	"	"	"	
Benzene	ND	2.3	"	"	"	"	"	"	
Bromobenzene	ND	2.3	"	"	"	"	"	"	
Bromochloromethane	ND	2.3	"	"	"	"	"	"	
Bromodichloromethane	ND	2.3	"	"	"	"	"	"	
Bromoform	ND	2.3	"	"	"	"	"	"	
Bromomethane	ND	2.3	"	"	"	"	"	"	
Carbon disulfide	ND	2.3	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.3	"	"	"	"	"	"	
Chlorobenzene	ND	2.3	"	"	"	"	"	"	
Chloroethane	ND	2.3	"	"	"	"	"	"	
Chloroform	ND	2.3	"	"	"	"	"	"	
Chloromethane	ND	2.3	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.3	"	"	"	"	"	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-30 (2A12102-03) Soil	Sampled: 01/21/11 08:16	Analyzed: 01/21/1	11 17:26						
cis-1,3-Dichloropropene	ND	2.3	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	2.3	"	"	"	"	"	"	
Dibromomethane	ND	2.3	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.3	"	"	"	"	"	"	
Ethylbenzene	ND	2.3	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.3	"	"	"	"	"	"	
Isopropylbenzene	ND	2.3	"	"	"	"	"	"	
Methylene Chloride	ND	2.3	"	"	"	"	"	"	
Naphthalene	ND	2.3	"	"	"	"	"	"	
n-Butylbenzene	ND	2.3	"	"	"	"	"	"	
n-Propylbenzene	ND	2.3	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.3	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.3	"	"	"	"	"	"	
Styrene	ND	2.3	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.3	"	"	"	"	"	"	
Tetrachloroethene	ND	2.3	"	"	"	"	"	"	
Toluene	ND	2.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.3	"	"	"	"	"	"	
Trichloroethene	ND	2.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.3	"	"	"	"	"	"	
Vinyl Chloride	ND	2.3	"	"	"	"	"	"	
Xylenes (total)	ND	6.8	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		99.2 %	75-12	?5	"	"	"	"	
Surrogate: Toluene-d8		103 %	75-12	?5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.4 %	75-12	25	"	"	"	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-40 (2A12102-04) Soil	Sampled: 01/21/11 08:23	Analyzed: 01/2	1/11 17:52						
1,1,1,2-Tetrachloroethane	ND	2.7	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.7	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.7	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.7	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.7	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.7	"	"	"	"	"	"	
Benzene	ND	2.7	"	"	"	"	"	"	
Bromobenzene	ND	2.7	"	"	"	"	"	"	
Bromochloromethane	ND	2.7	"	"	"	"	"	"	
Bromodichloromethane	ND	2.7	"	"	"	"	"	"	
Bromoform	ND	2.7	"	"	"	"	"	"	
Bromomethane	ND	2.7	"	"	"	"	"	"	
Carbon disulfide	ND	2.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.7	"	"	"	"	"	"	
Chlorobenzene	ND	2.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	2.7	"	"	"	"	"	"	
Chloromethane	ND	2.7	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.7	"	"	"	"	"	"	



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### **Volatile Organic Compounds**

### **Environmental Support Technologies**

Analyte	Result	Reporting Limit U	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-40 (2A12102-04) Soil	Sampled: 01/21/11 08:23	Analyzed: 01/21/1	1 17:52						
cis-1,3-Dichloropropene	ND	2.7 u	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	2.7	"	"	"	"	"	"	
Dibromomethane	ND	2.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.7	"	"	"	"	"	"	
Ethylbenzene	ND	2.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
Isopropylbenzene	ND	2.7	"	"	"	"	"	"	
Methylene Chloride	ND	2.7	"	"	"	"	"	"	
Naphthalene	ND	2.7	"	"	"	"	"	"	
n-Butylbenzene	ND	2.7	"	"	"	"	"	"	
n-Propylbenzene	ND	2.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.7	"	"	"	"	"	"	
Styrene	ND	2.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.7	"	"	"	"	"	"	
Tetrachloroethene	ND	2.7	"	"	"	"	"	"	
Toluene	ND	2.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.7	"	"	"	"	"	"	
Trichloroethene	ND	2.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.7	"	"	"	"	"	"	
Vinyl Chloride	ND	2.7	"	"	"	"	"	"	
Xylenes (total)	ND	8.1	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91.0 %	75-12	5	"	"	"	"	
Surrogate: Toluene-d8		101 %	75-12	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	75-12		"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-50 (2A12102-05) Soil	Sampled: 01/21/11 08:30	Analyzed: 01/2	1/11 18:19						
1,1,1,2-Tetrachloroethane	ND	2.2	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.2	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
Benzene	ND	2.2	"	"	"	"	"	"	
Bromobenzene	ND	2.2	"	"	"	"	"	"	
Bromochloromethane	ND	2.2	"	"	"	"	"	"	
Bromodichloromethane	ND	2.2	"	"	"	"	"	"	
Bromoform	ND	2.2	"	"	"	"	"	"	
Bromomethane	ND	2.2	"	"	"	"	"	"	
Carbon disulfide	ND	2.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.2	"	"	"	"	"	"	
Chlorobenzene	ND	2.2	"	"	"	"	"	"	
Chloroethane	ND	2.2	"	"	"	"	"	"	
Chloroform	ND	2.2	"	"	"	"	"	"	
Chloromethane	ND	2.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.2	,,	,,	"	"	"	"	



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### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-50 (2A12102-05) Soil	Sampled: 01/21/11 08:30	Analyzed: 01/21	/11 18:19						
cis-1,3-Dichloropropene	ND	2.2	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	2.2	"	"	"	"	"	"	
Dibromomethane	ND	2.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.2	"	"	"	"	"	"	
Isopropylbenzene	ND	2.2	"	"	"	"	"	"	
Methylene Chloride	ND	2.2	"	"	"	"	"	"	
Naphthalene	ND	2.2	"	"	"	"	"	"	
n-Butylbenzene	ND	2.2	"	"	"	"	"	"	
n-Propylbenzene	ND	2.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.2	"	"	"	"	"	"	
Styrene	ND	2.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.2	"	"	"	"	"	"	
Tetrachloroethene	ND	2.2	"	"	"	"	"	"	
Toluene	ND	2.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.2	"	"	"	"	"	"	
Trichloroethene	ND	2.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.2	"	"	"	"	"	"	
Vinyl Chloride	ND	2.2	"	"	"	"	"	"	
Xylenes (total)	ND	6.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.8 %	75-1.	25	"	"	"	"	
Surrogate: Toluene-d8		103 %	75-1.	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %	75-1.	25	"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-60 (2A12102-06) Soil	Sampled: 01/21/11 08:40	Analyzed: 01/2	1/11 18:45						
1,1,1,2-Tetrachloroethane	ND	1.8	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	2.0	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Bromobenzene	ND	1.8	"	"	"	"	"	"	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
Carbon disulfide	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.8	1.8	"	"	"	"	"	"	



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# **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-60 (2A12102-06) Soil	Sampled: 01/21/11 08:40	Analyzed: 01/21	/11 18:45						
cis-1,3-Dichloropropene	ND	1.8	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
Methylene Chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	9.2	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Trichloroethene	ND	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
Vinyl Chloride	ND	1.8	"	"	"	"	"	"	
Xylenes (total)	ND	5.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		94.2 %	75-1	25	"	"	"	"	
Surrogate: Toluene-d8		103 %	75-1	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	75-1	25	"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-70 (2A12102-07) Soil	Sampled: 01/21/11 08:54	Analyzed: 01/2	1/11 19:12						
1,1,1,2-Tetrachloroethane	ND	1.8	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	1.8	1.8	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	4.9	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	19	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Bromobenzene	ND	1.8	"	"	"	"	"	"	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	"	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
Carbon disulfide	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	8.0	1.8	,,	"	,,	"	,,	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW02-70 (2A12102-07) Soil	Sampled: 01/21/11 08:54	Analyzed: 01/21/1	11 19:12						
cis-1,3-Dichloropropene	ND	1.8	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
Methylene Chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	33	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Trichloroethene	6.9	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
Vinyl Chloride	ND	1.8	"	"	"	"	"	"	
Xylenes (total)	ND	5.3	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.3 %	75-12	?5	"	"	"	"	
Surrogate: Toluene-d8		104 %	75-12	?5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %	75-12		"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-10 (2A12102-08) Soil	Sampled: 01/21/11 08:19	Analyzed: 01/2	4/11 14:51						
1,1,1,2-Tetrachloroethane	ND	2.1	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.1	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.1	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
Benzene	ND	2.1	"	"	"	"	"	"	
Bromobenzene	ND	2.1	"	"	"	"	"	"	
Bromochloromethane	ND	2.1	"	"	"	"	"	"	
Bromodichloromethane	ND	2.1	"	"	"	"	"	"	
Bromoform	ND	2.1	"	"	"	"	"	"	
Bromomethane	ND	2.1	"	"	"	"	"	"	
Carbon disulfide	ND	2.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.1	"	"	"	"	"	"	
Chlorobenzene	ND	2.1	"	"	"	"	"	"	
Chloroethane	ND	2.1	"	"	"	"	"	"	
Chloroform	ND	2.1	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit U	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-10 (2A12102-08) Soil	Sampled: 01/21/11 08:19	<b>Analyzed: 01/24/1</b>	1 14:51						
cis-1,3-Dichloropropene	ND	2.1 u	ıg/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
Dibromochloromethane	ND	2.1	"	"	"	"	"	"	
Dibromomethane	ND	2.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.1	"	"	"	"	"	"	
Ethylbenzene	ND	2.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.1	"	"	"	"	"	"	
Isopropylbenzene	ND	2.1	"	"	"	"	"	"	
Methylene Chloride	ND	2.1	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
n-Butylbenzene	ND	2.1	"	"	"	"	"	"	
n-Propylbenzene	ND	2.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.1	"	"	"	"	"	"	
Styrene	ND	2.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.1	"	"	"	"	"	"	
Tetrachloroethene	2.1	2.1	"	"	"	"	"	"	
Toluene	ND	2.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.1	"	"	"	"	"	"	
Trichloroethene	ND	2.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.1	"	"	"	"	"	"	
Vinyl Chloride	ND	2.1	"	"	"	"	"	"	
Xylenes (total)	ND	6.2	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.7 %	75-12	'5	"	"	"	"	
Surrogate: Toluene-d8		104 %	75-12	<b>'</b> 5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	75-12	<b>'</b> 5	"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-20 (2A12102-09) Soil	Sampled: 01/21/11 08:27	Analyzed: 01/2	4/11 15:18						
1,1,1,2-Tetrachloroethane	ND	2.1	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.1	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.1	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
Benzene	ND	2.1	"	"	"	"	"	"	
Bromobenzene	ND	2.1	"	"	"	"	"	"	
Bromochloromethane	ND	2.1	"	"	"	"	"	"	
Bromodichloromethane	ND	2.1	"	"	"	"	"	"	
Bromoform	ND	2.1	"	"	"	"	"	"	
Bromomethane	ND	2.1	"	"	"	"	"	"	
Carbon disulfide	ND	2.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.1	"	"	"	"	"	"	
Chlorobenzene	ND	2.1	"	"	"	"	"	"	
Chloroethane	ND	2.1	"	"	"	"	"	"	
Chloroform	ND	2.1	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.1	"	,,	,,	,,	,,	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-20 (2A12102-09) Soil	Sampled: 01/21/11 08:27	Analyzed: 01/24	/11 15:18						
cis-1,3-Dichloropropene	ND	2.1	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
Dibromochloromethane	ND	2.1	"	"	"	"	"	"	
Dibromomethane	ND	2.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.1	"	"	"	"	"	"	
Ethylbenzene	ND	2.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.1	"	"	"	"	"	"	
Isopropylbenzene	ND	2.1	"	"	"	"	"	"	
Methylene Chloride	ND	2.1	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
n-Butylbenzene	ND	2.1	"	"	"	"	"	"	
n-Propylbenzene	ND	2.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.1	"	"	"	"	"	"	
Styrene	ND	2.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.1	"	"	"	"	"	"	
Tetrachloroethene	2.6	2.1	"	"	"	"	"	"	
Toluene	ND	2.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.1	"	"	"	"	"	"	
Trichloroethene	ND	2.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.1	"	"	"	"	"	"	
Vinyl Chloride	ND	2.1	"	"	"	"	"	"	
Xylenes (total)	ND	6.2	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		88.4 %	75-1	25	"	"	"	"	
Surrogate: Toluene-d8		102 %	75-1	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	75-1	25	"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-30 (2A12102-10) Soil	Sampled: 01/21/11 08:36	Analyzed: 01/2	4/11 15:44						
1,1,1,2-Tetrachloroethane	ND	1.8	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
1,1,1-Trichloroethane	4.5	1.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.8	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.8	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.8	"	"	"	"	"	"	
Benzene	ND	1.8	"	"	"	"	"	"	
Bromobenzene	ND	1.8	"	"	"	"	"	"	
Bromochloromethane	ND	1.8	"	"	"	"	"	"	
Bromodichloromethane	ND	1.8	"	"	"	"	"	"	
Bromoform	ND	1.8	"	,,	"	"	"	"	
Bromomethane	ND	1.8	"	"	"	"	"	"	
Carbon disulfide	ND	1.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.8	"	"	"	"	"	"	
Chlorobenzene	ND	1.8	"	"	"	"	"	"	
Chloroethane	ND	1.8	"	"	"	"	"	"	
Chloroform	ND	1.8	"	"	"	"	"	"	
Chloromethane	ND	1.8	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.8		,,	,,	,,	,,	"	



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#### Volatile Organic Compounds

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-30 (2A12102-10) Soil	Sampled: 01/21/11 08:36	Analyzed: 01/24/1	11 15:44						
cis-1,3-Dichloropropene	ND	1.8	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
Dibromochloromethane	ND	1.8	"	"	"	"	"	"	
Dibromomethane	ND	1.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.8	"	"	"	"	"	"	
Ethylbenzene	ND	1.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.8	"	"	"	"	"	"	
Isopropylbenzene	ND	1.8	"	"	"	"	"	"	
Methylene Chloride	ND	1.8	"	"	"	"	"	"	
Naphthalene	ND	1.8	"	"	"	"	"	"	
n-Butylbenzene	ND	1.8	"	"	"	"	"	"	
n-Propylbenzene	ND	1.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Styrene	ND	1.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.8	"	"	"	"	"	"	
Tetrachloroethene	22	1.8	"	"	"	"	"	"	
Toluene	ND	1.8	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.8	"	"	"	"	"	"	
Trichloroethene	2.6	1.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.8	"	"	"	"	"	"	
Vinyl Chloride	ND	1.8	"	"	"	"	"	"	
Xylenes (total)	ND	5.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.8 %	75-12	?5	"	"	"	"	
Surrogate: Toluene-d8		104 %	75-12	?5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %	75-12	?5	"	"	"	"	



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# **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-40 (2A12102-11) Soil	Sampled: 01/21/11 08:50	Analyzed: 01/2	4/11 16:11						
1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.0	"	"	"	"		"	
1,2-Dichlorobenzene	ND	2.0	"	"	"	"		"	
1,2-Dichloroethane	ND	2.0	"	"	"	"		"	
1,2-Dichloropropane	ND	2.0	"	"	"	"		"	
1,3,5-Trimethylbenzene	ND	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.0	"	"	"	"		"	
1,3-Dichloropropane	ND	2.0	"	"	"	"		"	
1,4-Dichlorobenzene	ND	2.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.0	"	"	"	"	"	"	
Benzene	ND	2.0	"	"	"	"	"	"	
Bromobenzene	ND	2.0	"	"	"	"	"	"	
Bromochloromethane	ND	2.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	2.0	"	"	"	"	"	"	
Bromomethane	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	2.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.0	"	"	"	"	"	"	
Chlorobenzene	ND	2.0	"	"	"	"	"	"	
Chloroethane	ND	2.0	"	"	"	"	"	"	
Chloroform	ND	2.0	"	"	"	"	"	"	
Chloromethane	ND	2.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.0	"	,,	"	,,	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-40 (2A12102-11) Soil	Sampled: 01/21/11 08:50	Analyzed: 01/24	4/11 16:11						
cis-1,3-Dichloropropene	ND	2.0	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
Dibromochloromethane	ND	2.0	"	"	"	"	"	"	
Dibromomethane	ND	2.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.0	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.0	"	"	"	"	"	"	
Methylene Chloride	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	2.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.0	"	"	"	"	"	"	
n-Propylbenzene	ND	2.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Styrene	ND	2.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.0	"	"	"	"	"	"	
Tetrachloroethene	3.7	2.0	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.0	"	"	"	"	"	"	
Trichloroethene	ND	2.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.0	"	"	"	"	"	"	
Vinyl Chloride	ND	2.0	"	"	"	"	"	"	
Xylenes (total)	ND	6.1	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91.8 %	75-1	25	"	"	"	"	
Surrogate: Toluene-d8		103 %	75-1	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %	75-1	25	"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-50 (2A12102-12) Soil	Sampled: 01/21/11 08:57	Analyzed: 01/2	4/11 16:40						
1,1,1,2-Tetrachloroethane	ND	1.9	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.9	"	"	"	"		"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"		"	
1,2-Dichloroethane	ND	1.9	"	"	"	"		"	
1,2-Dichloropropane	ND	1.9	"	"	"	"		"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"		"	
1,3-Dichloropropane	ND	1.9	"	"	"	"		"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Bromobenzene	ND	1.9	"	"	"	"	"	"	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
Carbon disulfide	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	,,	,,	"	,,	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-50 (2A12102-12) Soil	Sampled: 01/21/11 08:57	Analyzed: 01/24	/11 16:40						
cis-1,3-Dichloropropene	ND	1.9	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
Methylene Chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	2.7	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
Vinyl Chloride	ND	1.9	"	"	"	"	"	"	
Xylenes (total)	ND	5.7	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		76.0 %	75-1.	25	"	"	"	"	
Surrogate: Toluene-d8		99.2 %	75-1.	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.5 %	75-1.	25	"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-60 (2A12102-13) Soil	Sampled: 01/21/11 09:09	Analyzed: 01/2	4/11 17:08						
1,1,1,2-Tetrachloroethane	ND	2.2	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.2	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
Benzene	ND	2.2	"	"	"	"	"	"	
Bromobenzene	ND	2.2	"	"	"	"	"	"	
Bromochloromethane	ND	2.2	"	"	"	"	"	"	
Bromodichloromethane	ND	2.2	"	"	"	"	"	"	
Bromoform	ND	2.2	"	"	"	"	"	"	
Bromomethane	ND	2.2	"	"	"	"	"	"	
Carbon disulfide	ND	2.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.2	"	"	"	"	"	"	
Chlorobenzene	ND	2.2	"	"	"	"	"	"	
Chloroethane	ND	2.2	"	"	"	"	"	"	
Chloroform	ND	2.2	"	"	"	"	"	"	
Chloromethane	ND	2.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.2	"	"	"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-60 (2A12102-13) Soil	Sampled: 01/21/11 09:09	Analyzed: 01/24/	/11 17:08						
cis-1,3-Dichloropropene	ND	2.2	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
Dibromochloromethane	ND	2.2	"	"	"	"	"	"	
Dibromomethane	ND	2.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.2	"	"	"	"	"	"	
Isopropylbenzene	ND	2.2	"	"	"	"	"	"	
Methylene Chloride	ND	2.2	"	"	"	"	"	"	
Naphthalene	ND	2.2	"	"	"	"	"	"	
n-Butylbenzene	ND	2.2	"	"	"	"	"	"	
n-Propylbenzene	ND	2.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.2	"	"	"	"	"	"	
Styrene	ND	2.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.2	"	"	"	"	"	"	
Tetrachloroethene	ND	2.2	"	"	"	"	"	"	
Toluene	ND	2.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.2	"	"	"	"	"	"	
Trichloroethene	ND	2.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.2	"	"	"	"	"	"	
Vinyl Chloride	ND	2.2	"	"	"	"	"	"	
Xylenes (total)	ND	6.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.8 %	75-1	25	"	"	"	"	
Surrogate: Toluene-d8		102 %	75-1	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.7 %	75-1	25	"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-70 (2A12102-14) Soil	Sampled: 01/21/11 09:20	Analyzed: 01/2	4/11 17:35						
1,1,1,2-Tetrachloroethane	ND	2.3	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.3	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.3	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.3	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.3	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.3	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.3	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.3	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.3	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.3	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.3	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.3	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.3	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.3	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.3	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.3	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.3	"	"	"	"	"	"	
Benzene	ND	2.3	"	"	"	"	"	"	
Bromobenzene	ND	2.3	"	"	"	"	"	"	
Bromochloromethane	ND	2.3	"	"	"	"	"	"	
Bromodichloromethane	ND	2.3	"	"	"	"	"	"	
Bromoform	ND	2.3	"	"	"	"	"	"	
Bromomethane	ND	2.3	"	"	"	"	"	"	
Carbon disulfide	ND	2.3	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.3	"	"	"	"	"	"	
Chlorobenzene	ND	2.3	"	"	"	"	"	"	
Chloroethane	ND	2.3	"	"	"	"	"	"	
Chloroform	ND	2.3	"	"	"	"	"	"	
Chloromethane	ND	2.3	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.3	"	"	"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-70 (2A12102-14) Soil	Sampled: 01/21/11 09:20	Analyzed: 01/24	/11 17:35						
cis-1,3-Dichloropropene	ND	2.3	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
Dibromochloromethane	ND	2.3	"	"	"	"	"	"	
Dibromomethane	ND	2.3	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.3	"	"	"	"	"	"	
Ethylbenzene	ND	2.3	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.3	"	"	"	"	"	"	
Isopropylbenzene	ND	2.3	"	"	"	"	"	"	
Methylene Chloride	ND	2.3	"	"	"	"	"	"	
Naphthalene	ND	2.3	"	"	"	"	"	"	
n-Butylbenzene	ND	2.3	"	"	"	"	"	"	
n-Propylbenzene	ND	2.3	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.3	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.3	"	"	"	"	"	"	
Styrene	ND	2.3	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.3	"	"	"	"	"	"	
Tetrachloroethene	5.3	2.3	"	"	"	"	"	"	
Toluene	ND	2.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.3	"	"	"	"	"	"	
Trichloroethene	ND	2.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.3	"	"	"	"	"	"	
Vinyl Chloride	ND	2.3	"	"	"	"	"	"	
Xylenes (total)	ND	6.9	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91.0 %	75-1.	25	"	"	"	"	
Surrogate: Toluene-d8		102 %	75-1.	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.5 %	75-1.	25	"	"	"	"	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-80 (2A12102-15) Soil	Sampled: 01/21/11 09:30	Analyzed: 01/2	4/11 18:03						
1,1,1,2-Tetrachloroethane	ND	1.9	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	1.9	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Bromobenzene	ND	1.9	"	"	"	"	"	"	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
Carbon disulfide	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	,,	,,	,,	,,	,,	



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#### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW03-80 (2A12102-15) Soil	Sampled: 01/21/11 09:30	Analyzed: 01/24	/11 18:03						
cis-1,3-Dichloropropene	ND	1.9	ug/kg	1	21A2501	01/24/11	01/24/11	EPA 8260B	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
Methylene Chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	7.6	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
Vinyl Chloride	ND	1.9	"	"	"	"	"	"	
Xylenes (total)	ND	5.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	75-1.	25	"	"	"	"	
Surrogate: Toluene-d8		104 %	75-1.	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	75-1.	25	"	"	"	"	



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# **Volatile Organic Compounds - Quality Control**

#### **Environmental Support Technologies**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Ratch	21	A 2101	- Valatiles	2

Blank (21A2101-BLK1)				Prepared & Analyzed: 01/21/11
1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg	
1,1,1-Trichloroethane	ND	2.0	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	
1,1,2-Trichloroethane	ND	2.0	"	
1,1,2-Trichloro-trifluoroethane	ND	2.0	"	
1,1-Dichloroethane	ND	2.0	"	
,1-Dichloroethene	ND	2.0	"	
1,1-Dichloropropene	ND	2.0	"	
1,2,3-Trichlorobenzene	ND	2.0	"	
1,2,3-Trichloropropane	ND	2.0	"	
1,2,4-Trichlorobenzene	ND	2.0	"	
1,2,4-Trimethylbenzene	ND	2.0	"	
1,2-Dibromo-3-chloropropane	ND	2.0	"	
1,2-Dibromoethane	ND	2.0	"	
,2-Dichlorobenzene	ND	2.0	"	
,2-Dichloroethane	ND	2.0	"	
,2-Dichloropropane	ND	2.0	"	
1,3,5-Trimethylbenzene	ND	2.0	"	
1,3-Dichlorobenzene	ND	2.0	"	
1,3-Dichloropropane	ND	2.0	"	
1,4-Dichlorobenzene	ND	2.0	"	
2,2-Dichloropropane	ND	2.0	"	
2-Chlorotoluene	ND	2.0	"	
4-Chlorotoluene	ND	2.0	"	
Benzene	ND	2.0	"	
Bromobenzene	ND	2.0	"	
Bromochloromethane	ND	2.0	"	
Bromodichloromethane	ND	2.0	"	
Bromoform	ND	2.0	"	
Bromomethane	ND	2.0	"	
Carbon disulfide	ND	2.0	"	
Carbon tetrachloride	ND	2.0	"	
Chlorobenzene	ND	2.0	"	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 21A2101 - Volatiles							
Blank (21A2101-BLK1)				Prepared & Ana	Prepared & Analyzed: 01/21/11	Prepared & Analyzed: 01/21/11	Prepared & Analyzed: 01/21/11
Chloroethane	ND	2.0	ug/kg	-		· · · · · · · · · · · · · · · · · · ·	•
Chloroform	ND	2.0	"				
Chloromethane	ND	2.0	"				
cis-1,2-Dichloroethene	ND	2.0	"				
cis-1,3-Dichloropropene	ND	2.0	"				
Dibromochloromethane	ND	2.0	"				
Dibromomethane	ND	2.0	"				
Dichlorodifluoromethane	ND	2.0	"				
Ethylbenzene	ND	2.0	"				
Hexachlorobutadiene	ND	2.0	"				
Isopropylbenzene	ND	2.0	"				
Methylene Chloride	ND	2.0	"				
Naphthalene	ND	2.0	"				
n-Butylbenzene	ND	2.0	"				
n-Propylbenzene	ND	2.0	"				
p-Isopropyltoluene	ND	2.0	"				
sec-Butylbenzene	ND	2.0	"				
Styrene	ND	2.0	"				
tert-Butylbenzene	ND	2.0	"				
Tetrachloroethene	ND	2.0	"				
Toluene	ND	2.0	"				
trans-1,2-Dichloroethene	ND	2.0	"				
trans-1,3-Dichloropropene	ND	2.0	"				
Trichloroethene	ND	2.0	"				
Trichlorofluoromethane	ND	2.0	"				
Vinyl Chloride	ND	2.0	"				
Xylenes (total)	ND	6.0	"				
Surrogate: Dibromofluoromethane	43.2		"	50.0	50.0 86.4	50.0 86.4 75-125	50.0 86.4 75-125
Surrogate: Toluene-d8	50.4		"	50.0	50.0 101	50.0 101 75-125	50.0 101 75-125
Surrogate: 4-Bromofluorobenzene	43.9		"	50.0	50.0 87.8	50.0 87.8 75-125	50.0 87.8 75-125



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

LCS (21A2101-BS1)				Prepared & Ana	lyzed: 01/21/11		
1,1,1,2-Tetrachloroethane	50.1	2.0	ug/kg	50.0	100	74-129	
1,1,1-Trichloroethane	48.2	2.0	"	50.0	96.5	81-124	
1,1,2,2-Tetrachloroethane	55.9	2.0	"	50.0	112	61-125	
1,1,2-Trichloroethane	43.2	2.0	"	50.0	86.4	77-118	
1,1,2-Trichloro-trifluoroethane	38.3	2.0	"	50.0	76.5	85-115	QL-H
1,1-Dichloroethane	47.6	2.0	"	50.0	95.3	83-117	
1,1-Dichloroethene	44.9	2.0	"	50.0	89.7	85-116	
1,1-Dichloropropene	41.1	2.0	"	50.0	82.2	80-116	
1,2,3-Trichlorobenzene	45.3	2.0	"	50.0	90.6	85-118	
1,2,3-Trichloropropane	44.9	2.0	"	50.0	89.8	64-122	
1,2,4-Trichlorobenzene	45.3	2.0	"	50.0	90.6	85-115	
1,2,4-Trimethylbenzene	65.9	2.0	"	50.0	132	85-115	QL-I
1,2-Dibromo-3-chloropropane	40.8	2.0	"	50.0	81.6	36-148	
1,2-Dibromoethane	66.9	2.0	"	50.0	134	85-115	QL-I
1,2-Dichlorobenzene	64.7	2.0	"	50.0	129	85-115	QL-I
1,2-Dichloroethane	40.7	2.0	"	50.0	81.4	82-118	QL-I
1,2-Dichloropropane	49.5	2.0	"	50.0	99.0	85-115	
1,3,5-Trimethylbenzene	70.1	2.0	"	50.0	140	85-115	QL-I
1,3-Dichlorobenzene	69.4	2.0	"	50.0	139	85-115	QL-I
1,3-Dichloropropane	46.5	2.0	"	50.0	93.0	83-116	
1,4-Dichlorobenzene	64.1	2.0	"	50.0	128	85-115	QL-I
2,2-Dichloropropane	41.6	2.0	"	50.0	83.2	71-144	
2-Chlorotoluene	48.0	2.0	"	50.0	96.0	85-115	
4-Chlorotoluene	72.3	2.0	"	50.0	145	85-115	QL-I
Benzene	44.6	2.0	"	50.0	89.2	85-115	
Bromobenzene	58.1	2.0	"	50.0	116	85-115	QL-I
Bromochloromethane	53.6	2.0	"	50.0	107	81-117	
Bromodichloromethane	50.1	2.0	"	50.0	100	80-121	
Bromoform	50.7	2.0	"	50.0	101	53-145	
Bromomethane	42.9	2.0	"	50.0	85.8	75-123	
Carbon disulfide	43.7	2.0	"	50.0	87.4	78-125	
Carbon tetrachloride	49.4	2.0	"	50.0	98.8	83-125	
Chlorobenzene	46.0	2.0	"	50.0	91.9	85-115	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

LCS (21A2101-BS1)				Prepared & Ana	lyzed: 01/21/11		
Chloroethane	54.9	2.0	ug/kg	50.0	110	63-145	
Chloroform	47.3	2.0	"	50.0	94.6	82-120	
Chloromethane	56.7	2.0	"	50.0	113	71-128	
cis-1,2-Dichloroethene	47.8	2.0	"	50.0	95.5	81-122	
cis-1,3-Dichloropropene	53.6	2.0	"	50.0	107	85-116	
Dibromochloromethane	50.0	2.0	"	50.0	100	76-116	
Dibromomethane	43.3	2.0	"	50.0	86.6	83-117	
Dichlorodifluoromethane	43.2	2.0	"	50.0	86.5	75-118	
Ethylbenzene	44.5	2.0	"	50.0	89.0	83-115	
Hexachlorobutadiene	76.5	2.0	"	50.0	153	84-131	QL-I
Isopropylbenzene	49.0	2.0	"	50.0	98.0	85-115	
Methylene Chloride	52.1	2.0	"	50.0	104	85-119	
Naphthalene	58.4	2.0	"	50.0	117	58-121	
n-Butylbenzene	35.2	2.0	"	50.0	70.3	85-117	QL-I
n-Propylbenzene	41.9	2.0	"	50.0	83.8	85-115	QL-I
p-Isopropyltoluene	63.9	2.0	"	50.0	128	85-115	QL-I
sec-Butylbenzene	69.3	2.0	"	50.0	139	85-115	QL-I
Styrene	54.6	2.0	"	50.0	109	85-115	
tert-Butylbenzene	68.9	2.0	"	50.0	138	85-115	QL-I
Tetrachloroethene	47.0	2.0	"	50.0	94.0	70-139	
Toluene	46.3	2.0	"	50.0	92.7	77-115	
trans-1,2-Dichloroethene	48.7	2.0	"	50.0	97.4	85-115	
trans-1,3-Dichloropropene	51.6	2.0	"	50.0	103	77-121	
Trichloroethene	47.2	2.0	"	50.0	94.4	79-123	
Trichlorofluoromethane	57.7	2.0	"	50.0	115	63-151	
Vinyl Chloride	50.6	2.0	"	50.0	101	85-116	
Xylenes (total)	124	6.0	"	150	82.9	79-115	
Surrogate: Dibromofluoromethane	47.2		"	50.0	94.4	75-125	
Surrogate: Toluene-d8	55.8		"	50.0	112	75-125	
Surrogate: 4-Bromofluorobenzene	40.3		"	50.0	80.6	75-125	



Reporting

360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

Spike

Source

%REC

RPD

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 21A2101 - Volatiles										
LCS Dup (21A2101-BSD1)				Prepared &	Analyzed:	01/21/11				
1,1,1,2-Tetrachloroethane	52.1	2.0	ug/kg	50.0		104	74-129	3.88	20	
1,1,1-Trichloroethane	47.1	2.0	"	50.0		94.2	81-124	2.43	20	
1,1,2,2-Tetrachloroethane	63.0	2.0	"	50.0		126	61-125	12.0	20	QL
1,1,2-Trichloroethane	51.1	2.0	"	50.0		102	77-118	16.8	20	
1,1,2-Trichloro-trifluoroethane	49.6	2.0	"	50.0		99.2	85-115	25.8	20	QR-
1,1-Dichloroethane	47.6	2.0	"	50.0		95.2	83-117	0.0420	20	
1,1-Dichloroethene	46.9	2.0	"	50.0		93.9	85-116	4.53	20	
1,1-Dichloropropene	43.8	2.0	"	50.0		87.5	80-116	6.22	20	
1,2,3-Trichlorobenzene	46.7	2.0	"	50.0		93.4	85-118	3.09	20	
1,2,3-Trichloropropane	50.8	2.0	"	50.0		102	64-122	12.4	20	
1,2,4-Trichlorobenzene	46.7	2.0	"	50.0		93.4	85-115	3.09	20	
1,2,4-Trimethylbenzene	68.4	2.0	"	50.0		137	85-115	3.81	20	QL
1,2-Dibromo-3-chloropropane	50.6	2.0	"	50.0		101	36-148	21.6	20	QL
1,2-Dibromoethane	73.2	2.0	"	50.0		146	85-115	9.08	20	QL-
1,2-Dichlorobenzene	65.4	2.0	"	50.0		131	85-115	1.17	20	QL
1,2-Dichloroethane	42.8	2.0	"	50.0		85.6	82-118	4.98	20	
1,2-Dichloropropane	49.7	2.0	"	50.0		99.4	85-115	0.363	20	
1,3,5-Trimethylbenzene	72.8	2.0	"	50.0		146	85-115	3.81	20	QL
1,3-Dichlorobenzene	68.2	2.0	"	50.0		136	85-115	1.69	20	QL-
1,3-Dichloropropane	51.4	2.0	"	50.0		103	83-116	10.1	20	
1,4-Dichlorobenzene	65.2	2.0	"	50.0		130	85-115	1.64	20	QL
2,2-Dichloropropane	45.8	2.0	"	50.0		91.7	71-144	9.65	20	
2-Chlorotoluene	48.4	2.0	"	50.0		96.7	85-115	0.706	20	
4-Chlorotoluene	71.4	2.0	"	50.0		143	85-115	1.28	20	QL
Benzene	42.7	2.0	"	50.0		85.4	85-115	4.35	20	
Bromobenzene	57.8	2.0	"	50.0		116	85-115	0.518	20	QL-
Bromochloromethane	55.3	2.0	"	50.0		111	81-117	3.12	20	
Bromodichloromethane	48.4	2.0	"	50.0		96.7	80-121	3.61	20	
Bromoform	58.5	2.0	"	50.0		117	53-145	14.2	20	
Bromomethane	43.8	2.0	"	50.0		87.5	75-123	2.03	20	
Carbon disulfide	44.9	2.0	"	50.0		89.8	78-125	2.71	20	
Carbon tetrachloride	53.4	2.0	"	50.0		107	83-125	7.90	20	
Chlorobenzene	46.1	2.0	"	50.0		92.3	85-115	0.391	20	



Reporting

360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

Spike

Source

%REC

RPD

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 21A2101 - Volatiles										
LCS Dup (21A2101-BSD1)				Prepared &	Analyzed:	01/21/11				
Chloroethane	52.7	2.0	ug/kg	50.0		105	63-145	4.09	20	
Chloroform	47.7	2.0	"	50.0		95.3	82-120	0.758	20	
Chloromethane	48.7	2.0	"	50.0		97.4	71-128	15.3	20	
cis-1,2-Dichloroethene	49.9	2.0	"	50.0		99.8	81-122	4.42	20	
cis-1,3-Dichloropropene	52.5	2.0	"	50.0		105	85-116	2.04	20	
Dibromochloromethane	55.8	2.0	"	50.0		112	76-116	10.9	20	
Dibromomethane	49.6	2.0	"	50.0		99.1	83-117	13.4	20	
Dichlorodifluoromethane	41.3	2.0	"	50.0		82.6	75-118	4.54	20	
Ethylbenzene	44.9	2.0	"	50.0		89.7	83-115	0.806	20	
Hexachlorobutadiene	78.5	2.0	"	50.0		157	84-131	2.56	20	QL-
Isopropylbenzene	48.7	2.0	"	50.0		97.5	85-115	0.573	20	
Methylene Chloride	50.4	2.0	"	50.0		101	85-119	3.32	20	
Naphthalene	66.5	2.0	"	50.0		133	58-121	12.9	20	QL-
n-Butylbenzene	36.6	2.0	"	50.0		73.1	85-117	3.90	20	QL-
n-Propylbenzene	42.6	2.0	"	50.0		85.2	85-115	1.70	20	
p-Isopropyltoluene	66.5	2.0	"	50.0		133	85-115	3.90	20	QL-
sec-Butylbenzene	70.8	2.0	"	50.0		142	85-115	2.14	20	QL-
Styrene	54.7	2.0	"	50.0		109	85-115	0.293	20	
tert-Butylbenzene	72.5	2.0	"	50.0		145	85-115	4.98	20	QL-
Tetrachloroethene	50.2	2.0	"	50.0		100	70-139	6.55	20	
Toluene	46.5	2.0	"	50.0		92.9	77-115	0.259	20	
trans-1,2-Dichloroethene	48.8	2.0	"	50.0		97.7	85-115	0.328	20	
trans-1,3-Dichloropropene	53.8	2.0	"	50.0		108	77-121	4.17	20	
Trichloroethene	46.0	2.0	"	50.0		92.0	79-123	2.58	20	
Trichlorofluoromethane	59.1	2.0	"	50.0		118	63-151	2.43	20	
Vinyl Chloride	47.8	2.0	"	50.0		95.7	85-116	5.57	20	
Xylenes (total)	124	6.0	"	150		82.7	79-115	0.209	20	
Surrogate: Dibromofluoromethane	48.1		"	50.0		96.2	75-125			
Surrogate: Toluene-d8	55.4		"	50.0		111	75-125			
Surrogate: 4-Bromofluorobenzene	40.8		"	50.0		81.6	75-125			



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 21A2501 - Volatiles					
Blank (21A2501-BLK1)				Prepared & Analyzed: 01/24/11	
1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg		
1,1,1-Trichloroethane	ND	2.0	"		
	2.775				

1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg
1,1,1-Trichloroethane	ND	2.0	"
1,1,2,2-Tetrachloroethane	ND	2.0	"
1,1,2-Trichloroethane	ND	2.0	"
1,1,2-Trichloro-trifluoroethane	ND	2.0	"
1,1-Dichloroethane	ND	2.0	"
1,1-Dichloroethene	ND	2.0	"
1,1-Dichloropropene	ND	2.0	"
1,2,3-Trichlorobenzene	ND	2.0	"
1,2,3-Trichloropropane	ND	2.0	"
1,2,4-Trichlorobenzene	ND	2.0	"
1,2,4-Trimethylbenzene	ND	2.0	"
1,2-Dibromo-3-chloropropane	ND	2.0	"
1,2-Dibromoethane	ND	2.0	"
1,2-Dichlorobenzene	ND	2.0	"
1,2-Dichloroethane	ND	2.0	"
1,2-Dichloropropane	ND	2.0	"
1,3,5-Trimethylbenzene	ND	2.0	"
1,3-Dichlorobenzene	ND	2.0	"
1,3-Dichloropropane	ND	2.0	"
1,4-Dichlorobenzene	ND	2.0	"
2,2-Dichloropropane	ND	2.0	"
2-Chlorotoluene	ND	2.0	"
4-Chlorotoluene	ND	2.0	"
Benzene	ND	2.0	"
Bromobenzene	ND	2.0	"
Bromochloromethane	ND	2.0	"
Bromodichloromethane	ND	2.0	"
Bromoform	ND	2.0	"
Bromomethane	ND	2.0	"
Carbon disulfide	ND	2.0	"
Carbon tetrachloride	ND	2.0	"
Chlorobenzene	ND	2.0	"



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (21A2501-BLK1)			
Chloroethane	ND	2.0	ug/kg
Chloroform	ND	2.0	"
Chloromethane	ND	2.0	"
cis-1,2-Dichloroethene	ND	2.0	"
cis-1,3-Dichloropropene	ND	2.0	"
Dibromochloromethane	ND	2.0	"
Dibromomethane	ND	2.0	"
Dichlorodifluoromethane	ND	2.0	"
Ethylbenzene	ND	2.0	"
Hexachlorobutadiene	ND	2.0	"
Isopropylbenzene	ND	2.0	"
Methylene Chloride	ND	2.0	"
Naphthalene	ND	2.0	"
n-Butylbenzene	ND	2.0	"
n-Propylbenzene	ND	2.0	"
p-Isopropyltoluene	ND	2.0	"
sec-Butylbenzene	ND	2.0	"
Styrene	ND	2.0	"
tert-Butylbenzene	ND	2.0	"
Tetrachloroethene	ND	2.0	"
Toluene	ND	2.0	"
trans-1,2-Dichloroethene	ND	2.0	"
trans-1,3-Dichloropropene	ND	2.0	"
Trichloroethene	ND	2.0	"
Trichlorofluoromethane	ND	2.0	"
Vinyl Chloride	ND	2.0	"
Xylenes (total)	ND	6.0	"
Surrogate: Dibromofluoromethane	43.8		"
Surrogate: Toluene-d8	52.8		"
Surrogate: 4-Bromofluorobenzene	46.4		"



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 21A2501 - Volatiles										

LCS (21A2501-BS1)				Prepared & Anal	lyzed: 01/24/11		
1,1,1,2-Tetrachloroethane	51.0	2.0	ug/kg	50.0	102	74-129	
1,1,1-Trichloroethane	47.1	2.0	"	50.0	94.1	81-124	
1,1,2,2-Tetrachloroethane	62.7	2.0	"	50.0	125	61-125	
1,1,2-Trichloroethane	48.8	2.0	"	50.0	97.7	77-118	
1,1,2-Trichloro-trifluoroethane	49.8	2.0	"	50.0	99.6	85-115	
1,1-Dichloroethane	45.5	2.0	"	50.0	91.0	83-117	
1,1-Dichloroethene	46.7	2.0	"	50.0	93.4	85-116	
1,1-Dichloropropene	45.8	2.0	"	50.0	91.7	80-116	
1,2,3-Trichlorobenzene	48.2	2.0	"	50.0	96.4	85-118	
1,2,3-Trichloropropane	58.2	2.0	"	50.0	116	64-122	
1,2,4-Trichlorobenzene	48.2	2.0	"	50.0	96.4	85-115	
1,2,4-Trimethylbenzene	67.6	2.0	"	50.0	135	85-115	QL-I
1,2-Dibromo-3-chloropropane	66.0	2.0	"	50.0	132	36-148	
1,2-Dibromoethane	85.7	2.0	"	50.0	171	85-115	QL-I
1,2-Dichlorobenzene	65.3	2.0	"	50.0	131	85-115	QL-I
1,2-Dichloroethane	46.6	2.0	"	50.0	93.3	82-118	
1,2-Dichloropropane	53.5	2.0	"	50.0	107	85-115	
1,3,5-Trimethylbenzene	70.6	2.0	"	50.0	141	85-115	QL-I
1,3-Dichlorobenzene	67.8	2.0	"	50.0	136	85-115	QL-I
1,3-Dichloropropane	51.6	2.0	"	50.0	103	83-116	
1,4-Dichlorobenzene	64.5	2.0	"	50.0	129	85-115	QL-I
2,2-Dichloropropane	42.3	2.0	"	50.0	84.5	71-144	
2-Chlorotoluene	47.0	2.0	"	50.0	94.0	85-115	
4-Chlorotoluene	70.1	2.0	"	50.0	140	85-115	QL-I
Benzene	45.4	2.0	"	50.0	90.9	85-115	
Bromobenzene	56.0	2.0	"	50.0	112	85-115	
Bromochloromethane	53.1	2.0	"	50.0	106	81-117	
Bromodichloromethane	51.4	2.0	"	50.0	103	80-121	
Bromoform	61.0	2.0	"	50.0	122	53-145	
Bromomethane	36.6	2.0	"	50.0	73.1	75-123	QL-H
Carbon disulfide	45.8	2.0	"	50.0	91.5	78-125	
Carbon tetrachloride	51.8	2.0	"	50.0	104	83-125	
Chlorobenzene	45.8	2.0	"	50.0	91.6	85-115	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 21A2501 - Volatiles										

LCS (21A2501-BS1)				Prepared & Ana	alyzed: 01/24/11		
Chloroethane	57.0	2.0	ug/kg	50.0	114	63-145	
Chloroform	48.0	2.0	"	50.0	96.0	82-120	
Chloromethane	65.4	2.0	"	50.0	131	71-128	QL-H
cis-1,2-Dichloroethene	48.2	2.0	"	50.0	96.4	81-122	
cis-1,3-Dichloropropene	59.0	2.0	"	50.0	118	85-116	QL-H
Dibromochloromethane	54.1	2.0	"	50.0	108	76-116	
Dibromomethane	51.5	2.0	"	50.0	103	83-117	
Dichlorodifluoromethane	46.4	2.0	"	50.0	92.8	75-118	
Ethylbenzene	45.4	2.0	"	50.0	90.9	83-115	
Hexachlorobutadiene	78.1	2.0	"	50.0	156	84-131	QL-H
Isopropylbenzene	51.1	2.0	"	50.0	102	85-115	
Methylene Chloride	54.8	2.0	"	50.0	110	85-119	
Naphthalene	68.5	2.0	"	50.0	137	58-121	QL-H
n-Butylbenzene	37.1	2.0	"	50.0	74.3	85-117	QL-H1
n-Propylbenzene	42.8	2.0	"	50.0	85.7	85-115	
p-Isopropyltoluene	67.8	2.0	"	50.0	136	85-115	QL-H
sec-Butylbenzene	71.6	2.0	"	50.0	143	85-115	QL-H
Styrene	55.5	2.0	"	50.0	111	85-115	
tert-Butylbenzene	70.0	2.0	"	50.0	140	85-115	QL-H
Tetrachloroethene	49.3	2.0	"	50.0	98.6	70-139	
Toluene	45.6	2.0	"	50.0	91.2	77-115	
trans-1,2-Dichloroethene	47.8	2.0	"	50.0	95.6	85-115	
trans-1,3-Dichloropropene	55.2	2.0	"	50.0	110	77-121	
Trichloroethene	49.8	2.0	"	50.0	99.6	79-123	
Trichlorofluoromethane	20.3	2.0	"	50.0	40.7	63-151	QL-H1
Vinyl Chloride	52.2	2.0	"	50.0	104	85-116	
Xylenes (total)	126	6.0	"	150	83.9	79-115	
Surrogate: Dibromofluoromethane	46.0		"	50.0	92.0	75-125	
Surrogate: Toluene-d8	53.3		"	50.0	107	75-125	
Surrogate: 4-Bromofluorobenzene	42.0		"	50.0	84.1	75-125	



Reporting

360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

Spike

Source

%REC

RPD

		Reporting		эрікс	Source		/ortec		KFD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 21A2501 - Volatiles										
LCS Dup (21A2501-BSD1)				Prepared &	ኔ Analyzed:	01/24/11				
1,1,1,2-Tetrachloroethane	51.3	2.0	ug/kg	50.0		103	74-129	0.587	20	
1,1,1-Trichloroethane	46.0	2.0	"	50.0		92.1	81-124	2.19	20	
1,1,2,2-Tetrachloroethane	62.0	2.0	"	50.0		124	61-125	1.06	20	
1,1,2-Trichloroethane	44.5	2.0	"	50.0		89.0	77-118	9.30	20	
1,1,2-Trichloro-trifluoroethane	49.3	2.0	"	50.0		98.6	85-115	0.969	20	
1,1-Dichloroethane	47.6	2.0	"	50.0		95.2	83-117	4.56	20	
1,1-Dichloroethene	48.1	2.0	"	50.0		96.2	85-116	3.00	20	
1,1-Dichloropropene	48.6	2.0	"	50.0		97.1	80-116	5.76	20	
1,2,3-Trichlorobenzene	47.6	2.0	"	50.0		95.2	85-118	1.34	20	
1,2,3-Trichloropropane	52.1	2.0	"	50.0		104	64-122	11.1	20	
1,2,4-Trichlorobenzene	47.6	2.0	"	50.0		95.2	85-115	1.34	20	
1,2,4-Trimethylbenzene	78.0	2.0	"	50.0		156	85-115	14.3	20	QL-
1,2-Dibromo-3-chloropropane	66.8	2.0	"	50.0		134	36-148	1.14	20	
1,2-Dibromoethane	80.0	2.0	"	50.0		160	85-115	6.85	20	QL-
1,2-Dichlorobenzene	64.0	2.0	"	50.0		128	85-115	2.07	20	QL-
1,2-Dichloroethane	39.8	2.0	"	50.0		79.6	82-118	15.8	20	QL-H
1,2-Dichloropropane	44.9	2.0	"	50.0		89.8	85-115	17.4	20	
1,3,5-Trimethylbenzene	83.5	2.0	"	50.0		167	85-115	16.8	20	QL-
1,3-Dichlorobenzene	69.4	2.0	"	50.0		139	85-115	2.36	20	QL-
1,3-Dichloropropane	46.2	2.0	"	50.0		92.4	83-116	11.1	20	
1,4-Dichlorobenzene	66.3	2.0	"	50.0		133	85-115	2.75	20	QL-
2,2-Dichloropropane	48.7	2.0	"	50.0		97.3	71-144	14.1	20	
2-Chlorotoluene	53.3	2.0	"	50.0		107	85-115	12.6	20	
4-Chlorotoluene	76.1	2.0	"	50.0		152	85-115	8.29	20	QL-
Benzene	43.2	2.0	"	50.0		86.4	85-115	5.10	20	
Bromobenzene	57.5	2.0	"	50.0		115	85-115	2.78	20	
Bromochloromethane	47.4	2.0	"	50.0		94.8	81-117	11.3	20	
Bromodichloromethane	47.2	2.0	"	50.0		94.4	80-121	8.60	20	
Bromoform	54.8	2.0	"	50.0		110	53-145	10.8	20	
Bromomethane	37.7	2.0	"	50.0		75.4	75-123	3.07	20	
Carbon disulfide	49.1	2.0	"	50.0		98.2	78-125	7.08	20	
Carbon tetrachloride	61.6	2.0	"	50.0		123	83-125	17.3	20	
Chlorobenzene	46.7	2.0	"	50.0		93.4	85-115	1.95	20	



Reporting

360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

Spike

Source

%REC

RPD

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 21A2501 - Volatiles										
LCS Dup (21A2501-BSD1)				Prepared &	Analyzed:	: 01/24/11				
Chloroethane	53.1	2.0	ug/kg	50.0		106	63-145	7.01	20	
Chloroform	45.8	2.0	"	50.0		91.5	82-120	4.74	20	
Chloromethane	51.5	2.0	"	50.0		103	71-128	23.7	20	QR-04
cis-1,2-Dichloroethene	44.5	2.0	"	50.0		89.1	81-122	7.85	20	
cis-1,3-Dichloropropene	48.1	2.0	"	50.0		96.1	85-116	20.5	20	QR-04
Dibromochloromethane	53.6	2.0	"	50.0		107	76-116	0.817	20	
Dibromomethane	45.9	2.0	"	50.0		91.9	83-117	11.5	20	
Dichlorodifluoromethane	43.5	2.0	"	50.0		87.0	75-118	6.45	20	
Ethylbenzene	48.2	2.0	"	50.0		96.3	83-115	5.81	20	
Hexachlorobutadiene	94.3	2.0	"	50.0		189	84-131	18.9	20	QL-H
Isopropylbenzene	53.4	2.0	"	50.0		107	85-115	4.40	20	
Methylene Chloride	45.9	2.0	"	50.0		91.9	85-119	17.5	20	
Naphthalene	70.2	2.0	"	50.0		140	58-121	2.45	20	QL-H
n-Butylbenzene	45.2	2.0	"	50.0		90.4	85-117	19.6	20	
n-Propylbenzene	50.2	2.0	"	50.0		100	85-115	15.8	20	
p-Isopropyltoluene	80.6	2.0	"	50.0		161	85-115	17.2	20	QL-H
sec-Butylbenzene	87.5	2.0	"	50.0		175	85-115	20.0	20	QL-H
Styrene	52.8	2.0	"	50.0		106	85-115	4.95	20	
tert-Butylbenzene	84.0	2.0	"	50.0		168	85-115	18.2	20	QL-H
Tetrachloroethene	52.4	2.0	"	50.0		105	70-139	6.13	20	
Toluene	50.2	2.0	"	50.0		100	77-115	9.68	20	
trans-1,2-Dichloroethene	49.6	2.0	"	50.0		99.1	85-115	3.57	20	
trans-1,3-Dichloropropene	52.2	2.0	"	50.0		104	77-121	5.58	20	
Trichloroethene	46.1	2.0	"	50.0		92.1	79-123	7.84	20	
Trichlorofluoromethane	64.4	2.0	"	50.0		129	63-151	104	20	QR-04
Vinyl Chloride	51.4	2.0	"	50.0		103	85-116	1.47	20	
Xylenes (total)	129	6.0	"	150		86.3	79-115	2.82	20	
Surrogate: Dibromofluoromethane	42.5		"	50.0		85.0	75-125			
Surrogate: Toluene-d8	59.3		"	50.0		119	75-125			
Surrogate: 4-Bromofluorobenzene	39.8		"	50.0		79.6	75-125			



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:43

#### **Notes and Definitions**

QR-04 The RPD result for this analyte in the sample exceeded the QC control limits; however, the RPD for other analytes were within the

QC control limits.

QL-H1 The spike recovery was out high for the LCS and/or the LCSD; however the analyte in CCV is within QC acceptance limits.

QL-H The spike recovery was out high for the LCS and/or the LCSD; however the analyte was not detected in any of the analyzed

samples.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



January 27, 2011

Mr. Michael Marello Environmental Support Technologies 360 Goddard Irvine, California 92618

RE: 1850 E. Orangethorpe Ave, Fullerton CA.

Enclosed are the results of analyses for soil samples received by Environmental Support Technologies laboratory on 01/21/11 08:04. The analyses were performed according to the prescribed method as outlined by EPA 8260B. If you have any questions concerning this report, please feel free to contact Project Manager.

Sincerely,

# Dien Nguyen

Dien Nguyen Senior Chemist

Environmental Support Technologies laboratories are certified by the California Department of Health Services (CDHS), Environmental Laboratory Accreditation Program (ELAP) No's. 1996, 2511, and 2767.

360 Goddard, Irvine, California 92618 Telephone: (949) 679-9500 Fax: (949) 679-9501



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:37

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Analyzed
CM-GW04-10	2A12101-01	Soil	20-Jan-11 08:15	21-Jan-11 16:07
CM-GW04-20	2A12101-02	Soil	20-Jan-11 08:27	21-Jan-11 12:50
CM-GW04-30	2A12101-03	Soil	20-Jan-11 08:37	21-Jan-11 13:16
CM-GW04-40	2A12101-04	Soil	20-Jan-11 08:47	21-Jan-11 13:43
CM-GW04-50	2A12101-05	Soil	20-Jan-11 09:04	21-Jan-11 14:11
CM-GW04-60	2A12101-06	Soil	20-Jan-11 09:13	21-Jan-11 14:47
CM-GW04-70	2A12101-07	Soil	20-Jan-11 09:23	21-Jan-11 15:14
CM-GW04-80	2A12101-08	Soil	20-Jan-11 09:45	21-Jan-11 15:40



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:37

### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Result				1.1		-				
1,1,1,2-Tetrachloroethane	Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1,1-Trichloroethane	CM-GW04-10 (2A12101-01) Soil	Sampled: 01/20/11 08:15	Analyzed: 01/2	1/11 16:07						
1,1,2,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	ND	2.5	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,2-Trichlorocthane	1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,12-Trichloro-trifluoroethane   ND	1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethene         ND         2,5         "	1,1,2-Trichloro-trifluoroethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloropropene	1,1-Dichloroethane	ND	2.5	"	"	"	"	•	"	
1,2,3-Trichlorobenzene	1,1-Dichloroethene	ND	2.5	"	"	"	"	•	"	
1,2,3-Trichloropropane	1,1-Dichloropropene	ND	2.5	"	"	"	"	•	"	
1,2,4-Trichlorobenzene         ND         2.5         " <td>1,2,3-Trichlorobenzene</td> <td>ND</td> <td>2.5</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene         ND         2,5         " <td>1,2,3-Trichloropropane</td> <td>ND</td> <td>2.5</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene         ND         2.5         " <td></td> <td>ND</td> <td>2.5</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>		ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane         ND         2.5         " <td< td=""><td></td><td>ND</td><td></td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></td<>		ND		"	"	"	"	"	"	
1,2-Dibromoethane         ND         2.5         "	•	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene         ND         2.5         "				"	"	"	"	"	"	
1,2-Dichloroethane       ND       2.5       "				"	"	"	"	"	"	
1,2-Dichloropropane         ND         2.5         """"""""""""""""""""""""""""""""""""		ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene       ND       2.5       """"""""""""""""""""""""""""""""""""	<i>'</i>	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene         ND         2.5         """"""""""""""""""""""""""""""""""""				"	"	"	"	,,	"	
1,3-Dichloropropane         ND         2.5         "	* *			"	"	"	"	,,	"	
1,4-Dichlorobenzene         ND         2.5         "				"	"	"	"	,,	"	
2,2-Dichloropropane       ND       2.5       " <td></td> <td></td> <td></td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td> <td>"</td> <td></td>				"	"	"	"		"	
2-Chlorotoluene         ND         2.5         """"""""""""""""""""""""""""""""""""				"	"	"	"	,,	"	
4-Chlorotoluene         ND         2.5         "				"	"	"	"	,,	"	
Benzene         ND         2.5         "				"	"	"	"	,,	"	
Bromobenzene         ND         2.5         "				"	"	"	"	,,	"	
Bromochloromethane         ND         2.5         "				"	"	"	"	"	"	
Bromodichloromethane         ND         2.5         "				"	"	"	"	"	"	
Bromoform         ND         2.5         " <t< td=""><td></td><td></td><td></td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></t<>				"	"	"	"	"	"	
Bromomethane         ND         2.5         "				"	"	,,	,,	,,	"	
Carbon disulfide         ND         2.5         "				"	"	,,	"	,,	"	
Carbon tetrachloride         ND         2.5         "				"	"	,,	"	,,	"	
Chlorobenzene         ND         2.5         "				,,	"	"	"	,,	"	
Chloroethane         ND         2.5         "				,,	"	"	"	,,	"	
Chloroform         ND         2.5         "         <				,,	"	"	"	,,	"	
Chloromethane ND 2.5 " " " " " "					,,	"	"	,,	,,	
					,,	,,	,,	,,	,,	
CIS-1,2-DICHIOIOCUICHE IND 2.5										
	cis-1,2-Dicnioroemene	ND	2.5		"	.,	.,	"		



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:37

### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-10 (2A12101-01) Soil	Sampled: 01/20/11 08:15	Analyzed: 01/21	1/11 16:07						
cis-1,3-Dichloropropene	ND	2.5	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
Methylene Chloride	ND	2.5	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
Vinyl Chloride	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	7.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		86.2 %	75-1	25	"	"	"	"	
Surrogate: Toluene-d8		102 %	75-1	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.2 %	75-1	25	"	"	"	"	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:37

### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-20 (2A12101-02) Soil	Sampled: 01/20/11 08:27	Analyzed: 01/2	1/11 12:50						
1,1,1,2-Tetrachloroethane	ND	2.2	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.2	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.2	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.2	"	"	"	"		"	
2,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
Benzene	ND	2.2	"	"	"	"	"	"	
Bromobenzene	ND	2.2	"	"	"	"	"	"	
Bromochloromethane	ND	2.2	"	"	"	"	"	"	
Bromodichloromethane	ND	2.2	"	"	"	"	"	"	
Bromoform	ND	2.2	"	"	"	"	"	"	
Bromomethane	ND	2.2	"	"	"	"	"	"	
Carbon disulfide	ND	2.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.2	"	"	"	"	"	"	
Chlorobenzene	ND	2.2	"	"	"	"	"	"	
Chloroethane	ND	2.2	"	"	"	"	"	"	
Chloroform	ND	2.2	"	"	"	"	"	"	
Chloromethane	ND	2.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.2	"	"	"	"		"	



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### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-20 (2A12101-02) Soil	Sampled: 01/20/11 08:27	Analyzed: 01/21	1/11 12:50						
cis-1,3-Dichloropropene	ND	2.2	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	2.2	"	"	"	"	"	"	
Dibromomethane	ND	2.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.2	"	"	"	"	"	"	
Isopropylbenzene	ND	2.2	"	"	"	"	"	"	
Methylene Chloride	ND	2.2	"	"	"	"	"	"	
Naphthalene	ND	2.2	"	"	"	"	"	"	
n-Butylbenzene	ND	2.2	"	"	"	"	"	"	
n-Propylbenzene	ND	2.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.2	"	"	"	"	"	"	
Styrene	ND	2.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.2	"	"	"	"	•	"	
Tetrachloroethene	ND	2.2	"	"	"	"	"	"	
Toluene	ND	2.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.2	"	"	"	"	"	"	
Trichloroethene	ND	2.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.2	"	"	"	"	"	"	
Vinyl Chloride	ND	2.2	"	"	"	"	"	"	
Xylenes (total)	ND	6.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		85.3 %	75-1	25	"	"	"	"	
Surrogate: Toluene-d8		104 %	75-1	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.1 %	75-1	25	"	"	"	"	



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### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-30 (2A12101-03) Soil	Sampled: 01/20/11 08:37	Analyzed: 01/2	1/11 13:16						
1,1,1,2-Tetrachloroethane	ND	1.9	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.9	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.9	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.9	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.9	"	"	"	"	"	"	
Benzene	ND	1.9	"	"	"	"	"	"	
Bromobenzene	ND	1.9	"	"	"	"	"	"	
Bromochloromethane	ND	1.9	"	"	"	"	"	"	
Bromodichloromethane	ND	1.9	"	"	"	"	"	"	
Bromoform	ND	1.9	"	"	"	"	"	"	
Bromomethane	ND	1.9	"	"	"	"	"	"	
Carbon disulfide	ND	1.9	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.9	"	"	"	"	"	"	
Chlorobenzene	ND	1.9	"	"	"	"	"	"	
Chloroethane	ND	1.9	"	"	"	"	"	"	
Chloroform	ND	1.9	"	"	"	"	"	"	
Chloromethane	ND	1.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	



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### Volatile Organic Compounds

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-30 (2A12101-03) Soil	Sampled: 01/20/11 08:37	Analyzed: 01/21	/11 13:16						
cis-1,3-Dichloropropene	ND	1.9	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	1.9	"	"	"	"	"	"	
Dibromomethane	ND	1.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.9	"	"	"	"	"	"	
Ethylbenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.9	"	"	"	"	"	"	
Isopropylbenzene	ND	1.9	"	"	"	"	"	"	
Methylene Chloride	ND	1.9	"	"	"	"	"	"	
Naphthalene	ND	1.9	"	"	"	"	"	"	
n-Butylbenzene	ND	1.9	"	"	"	"	"	"	
n-Propylbenzene	ND	1.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.9	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Styrene	ND	1.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.9	"	"	"	"	"	"	
Tetrachloroethene	ND	1.9	"	"	"	"	"	"	
Toluene	ND	1.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.9	"	"	"	"	"	"	
Trichloroethene	ND	1.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.9	"	"	"	"	"	"	
Vinyl Chloride	ND	1.9	"	"	"	"	"	"	
Xylenes (total)	ND	5.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		94.9 %	75-1.	25	"	"	"	"	
Surrogate: Toluene-d8		104 %	75-1.	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	75-1.	25	"	"	"	"	



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### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-40 (2A12101-04) Soil	Sampled: 01/20/11 08:47	Analyzed: 01/2	1/11 13:43						
1,1,1,2-Tetrachloroethane	ND	2.2	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.2	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.2	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.2	"	"	"	"		"	
1,2-Dichlorobenzene	ND	2.2	"	"	"	"		"	
1,2-Dichloroethane	ND	2.2	"	"	"	"		"	
1,2-Dichloropropane	ND	2.2	"	"	"	"		"	
1,3,5-Trimethylbenzene	ND	2.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.2	"	"	"	"		"	
1,3-Dichloropropane	ND	2.2	"	"	"	"		"	
1,4-Dichlorobenzene	ND	2.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.2	"	"	"	"	"	"	
Benzene	ND	2.2	"	"	"	"	"	"	
Bromobenzene	ND	2.2	"	"	"	"	"	"	
Bromochloromethane	ND	2.2	"	"	"	"	"	"	
Bromodichloromethane	ND	2.2	"	"	"	"	"	"	
Bromoform	ND	2.2	"	"	"	"	"	"	
Bromomethane	ND	2.2	"	"	"	"	"	"	
Carbon disulfide	ND	2.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.2	"	"	"	"	"	"	
Chlorobenzene	ND	2.2	"	"	"	"	"	"	
Chloroethane	ND	2.2	"	"	"	"	"	"	
Chloroform	ND	2.2	"	"	"	"	"	"	
Chloromethane	ND	2.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.2	,,	,,	,,	,,	"	"	



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### Volatile Organic Compounds

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-40 (2A12101-04) Soil	Sampled: 01/20/11 08:47	Analyzed: 01/2	1/11 13:43						
cis-1,3-Dichloropropene	ND	2.2	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	2.2	"	"	"	"	"	"	
Dibromomethane	ND	2.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.2	"	"	"	"	"	"	
Isopropylbenzene	ND	2.2	"	"	"	"	"	"	
Methylene Chloride	ND	2.2	"	"	"	"	"	"	
Naphthalene	ND	2.2	"	"	"	"	"	"	
n-Butylbenzene	ND	2.2	"	"	"	"	"	"	
n-Propylbenzene	ND	2.2	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.2	"	"	"	"	"	"	
Styrene	ND	2.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.2	"	"	"	"	"	"	
Tetrachloroethene	ND	2.2	"	"	"	"	"	"	
Toluene	ND	2.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.2	"	"	"	"	"	"	
Trichloroethene	ND	2.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.2	"	"	"	"	"	"	
Vinyl Chloride	ND	2.2	"	"	"	"	"	"	
Xylenes (total)	ND	6.6	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		92.4 %	75-1	25	"	"	"	"	
Surrogate: Toluene-d8		101 %	75-1	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	75-1	25	"	"	"	"	



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### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-50 (2A12101-05) Soil	Sampled: 01/20/11 09:04	Analyzed: 01/2	1/11 14:11						
1,1,1,2-Tetrachloroethane	ND	2.3	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.3	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.3	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.3	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.3	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.3	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.3	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.3	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.3	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.3	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.3	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.3	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.3	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.3	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.3	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.3	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.3	"	"	"	"	"	"	
Benzene	ND	2.3	"	"	"	"	"	"	
Bromobenzene	ND	2.3	"	"	"	"	"	"	
Bromochloromethane	ND	2.3	"	"	"	"	"	"	
Bromodichloromethane	ND	2.3	"	"	"	"	"	"	
Bromoform	ND	2.3	"	"	"	"	"	"	
Bromomethane	ND	2.3	"	"	"	"	"	"	
Carbon disulfide	ND	2.3	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.3	"	"	"	"	"	"	
Chlorobenzene	ND	2.3	"	"	"	"	"	"	
Chloroethane	ND	2.3	"	"	"	"	"	"	
Chloroform	ND	2.3	"	"	"	"	"	"	
Chloromethane	ND	2.3	"	"	"	"	"	,,	
cis-1,2-Dichloroethene	ND	2.3	,,	,,	,,	,,	,,	,,	



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### Volatile Organic Compounds

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-50 (2A12101-05) Soil	Sampled: 01/20/11 09:04	Analyzed: 01/21	/11 14:11						
cis-1,3-Dichloropropene	ND	2.3	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	2.3	"	"	"	"	"	"	
Dibromomethane	ND	2.3	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.3	"	"	"	"	"	"	
Ethylbenzene	ND	2.3	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.3	"	"	"	"	"	"	
Isopropylbenzene	ND	2.3	"	"	"	"	"	"	
Methylene Chloride	ND	2.3	"	"	"	"	"	"	
Naphthalene	ND	2.3	"	"	"	"	"	"	
n-Butylbenzene	ND	2.3	"	"	"	"	"	"	
n-Propylbenzene	ND	2.3	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.3	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.3	"	"	"	"	"	"	
Styrene	ND	2.3	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.3	"	"	"	"	"	"	
Tetrachloroethene	ND	2.3	"	"	"	"	"	"	
Toluene	ND	2.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.3	"	"	"	"	"	"	
Trichloroethene	ND	2.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.3	"	"	"	"	"	"	
Vinyl Chloride	ND	2.3	"	"	"	"	"	"	
Xylenes (total)	ND	7.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.2 %	75-1	25	"	"	"	"	
Surrogate: Toluene-d8		101 %	75-1	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	75-1	25	"	"	"	"	



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### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-60 (2A12101-06) Soil	Sampled: 01/20/11 09:13	Analyzed: 01/2	1/11 14:47						
1,1,1,2-Tetrachloroethane	ND	2.1	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	2.1	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.1	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.1	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.1	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.1	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.1	"	"	"	"	"	"	
1,2-Dibromoethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.1	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.1	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.1	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.1	"	"	"	"	"	"	
Benzene	ND	2.1	"	"	"	"	"	"	
Bromobenzene	ND	2.1	"	"	"	"	"	"	
Bromochloromethane	ND	2.1	"	"	"	"	"	"	
Bromodichloromethane	ND	2.1	"	"	"	"	"	"	
Bromoform	ND	2.1	"	"	"	"	"	"	
Bromomethane	ND	2.1	"	"	"	"	"	"	
Carbon disulfide	ND	2.1	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.1	"	"	"	"	"	"	
Chlorobenzene	ND	2.1	"	"	"	"	"	"	
Chloroethane	ND	2.1	"	"	"	"	"	"	
Chloroform	ND	2.1	"	"	"	"	"	"	
Chloromethane	ND	2.1	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.1	,,	,,	,,	,,	,,	"	



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### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-60 (2A12101-06) Soil	Sampled: 01/20/11 09:13	Analyzed: 01/21	/11 14:47						
cis-1,3-Dichloropropene	ND	2.1	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	2.1	"	"	"	"	"	"	
Dibromomethane	ND	2.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.1	"	"	"	"	"	"	
Ethylbenzene	ND	2.1	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.1	"	"	"	"	"	"	
Isopropylbenzene	ND	2.1	"	"	"	"	"	"	
Methylene Chloride	ND	2.1	"	"	"	"	"	"	
Naphthalene	ND	2.1	"	"	"	"	"	"	
n-Butylbenzene	ND	2.1	"	"	"	"	"	"	
n-Propylbenzene	ND	2.1	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.1	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.1	"	"	"	"	"	"	
Styrene	ND	2.1	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.1	"	"	"	"	"	"	
Tetrachloroethene	ND	2.1	"	"	"	"	"	"	
Toluene	ND	2.1	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.1	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.1	"	"	"	"	"	"	
Trichloroethene	ND	2.1	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.1	"	"	"	"	"	"	
Vinyl Chloride	ND	2.1	"	"	"	"	"	"	
Xylenes (total)	ND	6.4	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		95.8 %	75-1	25	"	"	"	"	
Surrogate: Toluene-d8		102 %	75-1	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	75-1	25	"	"	"	"	



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### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-70 (2A12101-07) Soil	Sampled: 01/20/11 09:23	Analyzed: 01/2	1/11 15:14						
1,1,1,2-Tetrachloroethane	ND	1.6	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	1.6	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.6	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.6	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.6	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.6	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.6	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.6	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.6	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.6	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.6	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.6	"	"	"	"	"	"	
Benzene	ND	1.6	"	"	"	"	"	"	
Bromobenzene	ND	1.6	"	"	"	"	"	"	
Bromochloromethane	ND	1.6	"	"	"	"	"	"	
Bromodichloromethane	ND	1.6	"	"	"	"	"	"	
Bromoform	ND	1.6	"	"	"	"	"	"	
Bromomethane	ND	1.6	"	"	"	"	"	"	
Carbon disulfide	5.5	1.6	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.6	"	"	"	"	"	"	
Chlorobenzene	ND	1.6	"	"	"	"	"	"	
Chloroethane	ND	1.6	"	"	"	"	"	"	
Chloroform	ND	1.6	"	"	"	"	"	"	
Chloromethane	ND	1.6	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	



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### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-70 (2A12101-07) Soil	Sampled: 01/20/11 09:23	Analyzed: 01/21/	11 15:14						
cis-1,3-Dichloropropene	ND	1.6	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	1.6	"	"	"	"	"	"	
Dibromomethane	ND	1.6	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.6	"	"	"	"	"	"	
Ethylbenzene	ND	1.6	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.6	"	"	"	"	"	"	
Isopropylbenzene	ND	1.6	"	"	"	"	"	"	
Methylene Chloride	ND	1.6	"	"	"	"	"	"	
Naphthalene	ND	1.6	"	"	"	"	"	"	
n-Butylbenzene	ND	1.6	"	"	"	"	"	"	
n-Propylbenzene	ND	1.6	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.6	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.6	"	"	"	"	"	"	
Styrene	ND	1.6	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.6	"	"	"	"	"	"	
Tetrachloroethene	ND	1.6	"	"	"	"	"	"	
Toluene	ND	1.6	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.6	"	"	"	"	"	"	
Trichloroethene	ND	1.6	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.6	"	"	"	"	"	"	
Vinyl Chloride	ND	1.6	"	"	"	"	"	"	
Xylenes (total)	ND	4.8	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.9 %	75-1.	25	"	"	"	"	
Surrogate: Toluene-d8		103 %	75-1.	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	75-1.	25	"	"	"	"	



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### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-80 (2A12101-08) Soil	Sampled: 01/20/11 09:45	Analyzed: 01/2	1/11 15:40						
1,1,1,2-Tetrachloroethane	ND	1.7	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
1,1,1-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.7	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	1.7	"	"	"	"	"	"	
1,1-Dichloroethane	2.3	1.7	"	"	"	"	"	"	
1,1-Dichloroethene	35	1.7	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.7	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.7	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.7	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
,3,5-Trimethylbenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.7	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.7	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.7	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.7	"	"	"	"	"	"	
Benzene	ND	1.7	"	"	"	"	"	"	
Bromobenzene	ND	1.7	"	"	"	"	"	"	
Bromochloromethane	ND	1.7	"	"	"	"	"	"	
Bromodichloromethane	ND	1.7	"	"	"	"	"	"	
Bromoform	ND	1.7	"	"	"	"	"	"	
Bromomethane	ND	1.7	"	"	"	"	"	"	
Carbon disulfide	ND	1.7	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.7	"	"	"	"	"	"	
Chlorobenzene	ND	1.7	"	"	"	"	"	"	
Chloroethane	ND	1.7	"	"	"	"	"	"	
Chloroform	ND	1.7	"	"	"	"	"	"	
Chloromethane	ND	1.7	,,	"	"	"	"	"	
cis-1,2-Dichloroethene	4.2	1.7	,,	,,	,,	"	,,	"	



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### **Volatile Organic Compounds**

# **Environmental Support Technologies**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
CM-GW04-80 (2A12101-08) Soil	Sampled: 01/20/11 09:45	Analyzed: 01/21/	11 15:40						
cis-1,3-Dichloropropene	ND	1.7	ug/kg	1	21A2101	01/21/11	01/21/11	EPA 8260B	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Dibromomethane	ND	1.7	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.7	"	"	"	"	"	"	
Ethylbenzene	ND	1.7	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.7	"	"	"	"	"	"	
Isopropylbenzene	ND	1.7	"	"	"	"	"	"	
Methylene Chloride	ND	1.7	"	"	"	"	"	"	
Naphthalene	ND	1.7	"	"	"	"	"	"	
n-Butylbenzene	ND	1.7	"	"	"	"	"	"	
n-Propylbenzene	ND	1.7	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.7	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Styrene	ND	1.7	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	7.2	1.7	"	"	"	"	"	"	
Toluene	ND	1.7	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.7	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.7	"	"	"	"	"	"	
Trichloroethene	11	1.7	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.7	"	"	"	"	"	"	
Vinyl Chloride	ND	1.7	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		89.9 %	75-12	25	"	"	"	"	
Surrogate: Toluene-d8		101 %	75-12	25	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.7 %	75-12	25	"	"	"	"	



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# **Volatile Organic Compounds - Quality Control**

### **Environmental Support Technologies**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Ratch	21.	A 2101	<ul> <li>Volatiles</li> </ul>	

Blank (21A2101-BLK1)				Prepared & Analyzed: 01/21/11
1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg	
1,1,1-Trichloroethane	ND	2.0	"	
1,1,2,2-Tetrachloroethane	ND	2.0	"	
1,1,2-Trichloroethane	ND	2.0	"	
1,1,2-Trichloro-trifluoroethane	ND	2.0	"	
1,1-Dichloroethane	ND	2.0	"	
1,1-Dichloroethene	ND	2.0	"	
1,1-Dichloropropene	ND	2.0	"	
1,2,3-Trichlorobenzene	ND	2.0	"	
1,2,3-Trichloropropane	ND	2.0	"	
1,2,4-Trichlorobenzene	ND	2.0	"	
1,2,4-Trimethylbenzene	ND	2.0	"	
1,2-Dibromo-3-chloropropane	ND	2.0	"	
,2-Dibromoethane	ND	2.0	"	
1,2-Dichlorobenzene	ND	2.0	"	
,2-Dichloroethane	ND	2.0	"	
,2-Dichloropropane	ND	2.0	"	
,3,5-Trimethylbenzene	ND	2.0	"	
,3-Dichlorobenzene	ND	2.0	"	
,3-Dichloropropane	ND	2.0	"	
,4-Dichlorobenzene	ND	2.0	"	
2,2-Dichloropropane	ND	2.0	"	
2-Chlorotoluene	ND	2.0	"	
1-Chlorotoluene	ND	2.0	"	
Benzene	ND	2.0	"	
Bromobenzene	ND	2.0	"	
Bromochloromethane	ND	2.0	"	
Bromodichloromethane	ND	2.0	"	
Bromoform	ND	2.0	"	
Bromomethane	ND	2.0	"	
Carbon disulfide	ND	2.0	"	
Carbon tetrachloride	ND	2.0	"	
Chlorobenzene	ND	2.0	"	



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# Volatile Organic Compounds - Quality Control Environmental Support Technologies

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Slank (21A2101-BLK1)				Prepared & Anal	yzed: 01/21/11	
Chloroethane	ND	2.0	ug/kg			
Chloroform	ND	2.0	"			
Chloromethane	ND	2.0	"			
s-1,2-Dichloroethene	ND	2.0	"			
s-1,3-Dichloropropene	ND	2.0	"			
ibromochloromethane	ND	2.0	"			
bromomethane	ND	2.0	"			
chlorodifluoromethane	ND	2.0	"			
hylbenzene	ND	2.0	"			
exachlorobutadiene	ND	2.0	"			
propylbenzene	ND	2.0	"			
ethylene Chloride	ND	2.0	"			
phthalene	ND	2.0	"			
Butylbenzene	ND	2.0	"			
ropylbenzene	ND	2.0	"			
sopropyltoluene	ND	2.0	"			
Butylbenzene	ND	2.0	"			
ene	ND	2.0	"			
-Butylbenzene	ND	2.0	"			
achloroethene	ND	2.0	"			
uene	ND	2.0	"			
ns-1,2-Dichloroethene	ND	2.0	"			
s-1,3-Dichloropropene	ND	2.0	"			
chloroethene	ND	2.0	"			
chlorofluoromethane	ND	2.0	"			
nyl Chloride	ND	2.0	"			
lenes (total)	ND	6.0	"			
ogate: Dibromofluoromethane	43.2		"	50.0	86.4	75-125
rrogate: Toluene-d8	50.4		"	50.0	101	75-125
rogate: 4-Bromofluorobenzene	43.9		"	50.0	87.8	75-125



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# Volatile Organic Compounds - Quality Control Environmental Support Technologies

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

LCS (21A2101-BS1)				Prepared & Ana	lyzed: 01/21/11		
1,1,1,2-Tetrachloroethane	50.1	2.0	ug/kg	50.0	100	74-129	
1,1,1-Trichloroethane	48.2	2.0	"	50.0	96.5	81-124	
1,1,2,2-Tetrachloroethane	55.9	2.0	"	50.0	112	61-125	
1,1,2-Trichloroethane	43.2	2.0	"	50.0	86.4	77-118	
1,1,2-Trichloro-trifluoroethane	38.3	2.0	"	50.0	76.5	85-115	QL-H
1,1-Dichloroethane	47.6	2.0	"	50.0	95.3	83-117	
1,1-Dichloroethene	44.9	2.0	"	50.0	89.7	85-116	
1,1-Dichloropropene	41.1	2.0	"	50.0	82.2	80-116	
1,2,3-Trichlorobenzene	45.3	2.0	"	50.0	90.6	85-118	
1,2,3-Trichloropropane	44.9	2.0	"	50.0	89.8	64-122	
1,2,4-Trichlorobenzene	45.3	2.0	"	50.0	90.6	85-115	
1,2,4-Trimethylbenzene	65.9	2.0	"	50.0	132	85-115	QL-I
1,2-Dibromo-3-chloropropane	40.8	2.0	"	50.0	81.6	36-148	
1,2-Dibromoethane	66.9	2.0	"	50.0	134	85-115	QL-I
1,2-Dichlorobenzene	64.7	2.0	"	50.0	129	85-115	QL-I
1,2-Dichloroethane	40.7	2.0	"	50.0	81.4	82-118	QL-I
1,2-Dichloropropane	49.5	2.0	"	50.0	99.0	85-115	
1,3,5-Trimethylbenzene	70.1	2.0	"	50.0	140	85-115	QL-I
1,3-Dichlorobenzene	69.4	2.0	"	50.0	139	85-115	QL-I
1,3-Dichloropropane	46.5	2.0	"	50.0	93.0	83-116	
1,4-Dichlorobenzene	64.1	2.0	"	50.0	128	85-115	QL-I
2,2-Dichloropropane	41.6	2.0	"	50.0	83.2	71-144	
2-Chlorotoluene	48.0	2.0	"	50.0	96.0	85-115	
4-Chlorotoluene	72.3	2.0	"	50.0	145	85-115	QL-I
Benzene	44.6	2.0	"	50.0	89.2	85-115	
Bromobenzene	58.1	2.0	"	50.0	116	85-115	QL-I
Bromochloromethane	53.6	2.0	"	50.0	107	81-117	
Bromodichloromethane	50.1	2.0	"	50.0	100	80-121	
Bromoform	50.7	2.0	"	50.0	101	53-145	
Bromomethane	42.9	2.0	"	50.0	85.8	75-123	
Carbon disulfide	43.7	2.0	"	50.0	87.4	78-125	
Carbon tetrachloride	49.4	2.0	"	50.0	98.8	83-125	
Chlorobenzene	46.0	2.0	"	50.0	91.9	85-115	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:37

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

LCS (21A2101-BS1)				Prepared & Anal	lyzed: 01/21/11		
Chloroethane	54.9	2.0	ug/kg	50.0	110	63-145	
Chloroform	47.3	2.0	"	50.0	94.6	82-120	
Chloromethane	56.7	2.0	"	50.0	113	71-128	
cis-1,2-Dichloroethene	47.8	2.0	"	50.0	95.5	81-122	
cis-1,3-Dichloropropene	53.6	2.0	"	50.0	107	85-116	
Dibromochloromethane	50.0	2.0	"	50.0	100	76-116	
Dibromomethane	43.3	2.0	"	50.0	86.6	83-117	
Dichlorodifluoromethane	43.2	2.0	"	50.0	86.5	75-118	
Ethylbenzene	44.5	2.0	"	50.0	89.0	83-115	
Hexachlorobutadiene	76.5	2.0	"	50.0	153	84-131	QL-I
Isopropylbenzene	49.0	2.0	"	50.0	98.0	85-115	
Methylene Chloride	52.1	2.0	"	50.0	104	85-119	
Naphthalene	58.4	2.0	"	50.0	117	58-121	
n-Butylbenzene	35.2	2.0	"	50.0	70.3	85-117	QL-I
n-Propylbenzene	41.9	2.0	"	50.0	83.8	85-115	QL-I
p-Isopropyltoluene	63.9	2.0	"	50.0	128	85-115	QL-I
sec-Butylbenzene	69.3	2.0	"	50.0	139	85-115	QL-I
Styrene	54.6	2.0	"	50.0	109	85-115	
tert-Butylbenzene	68.9	2.0	"	50.0	138	85-115	QL-I
Tetrachloroethene	47.0	2.0	"	50.0	94.0	70-139	
Toluene	46.3	2.0	"	50.0	92.7	77-115	
trans-1,2-Dichloroethene	48.7	2.0	"	50.0	97.4	85-115	
trans-1,3-Dichloropropene	51.6	2.0	"	50.0	103	77-121	
Trichloroethene	47.2	2.0	"	50.0	94.4	79-123	
Trichlorofluoromethane	57.7	2.0	"	50.0	115	63-151	
Vinyl Chloride	50.6	2.0	"	50.0	101	85-116	
Xylenes (total)	124	6.0	"	150	82.9	79-115	
Surrogate: Dibromofluoromethane	47.2		"	50.0	94.4	75-125	
Surrogate: Toluene-d8	55.8		"	50.0	112	75-125	
Surrogate: 4-Bromofluorobenzene	40.3		"	50.0	80.6	75-125	



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:37

Reporting

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

Spike

Source

%REC

RPD

		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 21A2101 - Volatiles												
LCS Dup (21A2101-BSD1)				Prepared & Analyzed: 01/21/11								
1,1,1,2-Tetrachloroethane	52.1	2.0	ug/kg	50.0		104	74-129	3.88	20			
1,1,1-Trichloroethane	47.1	2.0	"	50.0		94.2	81-124	2.43	20			
1,1,2,2-Tetrachloroethane	63.0	2.0	"	50.0		126	61-125	12.0	20	QL		
1,1,2-Trichloroethane	51.1	2.0	"	50.0		102	77-118	16.8	20			
1,1,2-Trichloro-trifluoroethane	49.6	2.0	"	50.0		99.2	85-115	25.8	20	QR-		
1,1-Dichloroethane	47.6	2.0	"	50.0		95.2	83-117	0.0420	20			
1,1-Dichloroethene	46.9	2.0	"	50.0		93.9	85-116	4.53	20			
1,1-Dichloropropene	43.8	2.0	"	50.0		87.5	80-116	6.22	20			
1,2,3-Trichlorobenzene	46.7	2.0	"	50.0		93.4	85-118	3.09	20			
1,2,3-Trichloropropane	50.8	2.0	"	50.0		102	64-122	12.4	20			
1,2,4-Trichlorobenzene	46.7	2.0	"	50.0		93.4	85-115	3.09	20			
1,2,4-Trimethylbenzene	68.4	2.0	"	50.0		137	85-115	3.81	20	QL		
1,2-Dibromo-3-chloropropane	50.6	2.0	"	50.0		101	36-148	21.6	20	QL		
1,2-Dibromoethane	73.2	2.0	"	50.0		146	85-115	9.08	20	QL-		
1,2-Dichlorobenzene	65.4	2.0	"	50.0		131	85-115	1.17	20	QL		
1,2-Dichloroethane	42.8	2.0	"	50.0		85.6	82-118	4.98	20			
1,2-Dichloropropane	49.7	2.0	"	50.0		99.4	85-115	0.363	20			
1,3,5-Trimethylbenzene	72.8	2.0	"	50.0		146	85-115	3.81	20	QL		
1,3-Dichlorobenzene	68.2	2.0	"	50.0		136	85-115	1.69	20	QL-		
1,3-Dichloropropane	51.4	2.0	"	50.0		103	83-116	10.1	20			
1,4-Dichlorobenzene	65.2	2.0	"	50.0		130	85-115	1.64	20	QL		
2,2-Dichloropropane	45.8	2.0	"	50.0		91.7	71-144	9.65	20			
2-Chlorotoluene	48.4	2.0	"	50.0		96.7	85-115	0.706	20			
4-Chlorotoluene	71.4	2.0	"	50.0		143	85-115	1.28	20	QL		
Benzene	42.7	2.0	"	50.0		85.4	85-115	4.35	20			
Bromobenzene	57.8	2.0	"	50.0		116	85-115	0.518	20	QL-		
Bromochloromethane	55.3	2.0	"	50.0		111	81-117	3.12	20			
Bromodichloromethane	48.4	2.0	"	50.0		96.7	80-121	3.61	20			
Bromoform	58.5	2.0	"	50.0		117	53-145	14.2	20			
Bromomethane	43.8	2.0	"	50.0		87.5	75-123	2.03	20			
Carbon disulfide	44.9	2.0	"	50.0		89.8	78-125	2.71	20			
Carbon tetrachloride	53.4	2.0	"	50.0		107	83-125	7.90	20			
Chlorobenzene	46.1	2.0	"	50.0		92.3	85-115	0.391	20			



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:37

Reporting

# Volatile Organic Compounds - Quality Control Environmental Support Technologies

Spike

Source

%REC

RPD

		Reporting		Spike	Source		/OICEC		KID						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes					
Batch 21A2101 - Volatiles															
LCS Dup (21A2101-BSD1)		Prepared & Analyzed: 01/21/11													
Chloroethane	52.7	2.0	ug/kg	50.0		105	63-145	4.09	20						
Chloroform	47.7	2.0	"	50.0		95.3	82-120	0.758	20						
Chloromethane	48.7	2.0	"	50.0		97.4	71-128	15.3	20						
cis-1,2-Dichloroethene	49.9	2.0	"	50.0		99.8	81-122	4.42	20						
cis-1,3-Dichloropropene	52.5	2.0	"	50.0		105	85-116	2.04	20						
Dibromochloromethane	55.8	2.0	"	50.0		112	76-116	10.9	20						
Dibromomethane	49.6	2.0	"	50.0		99.1	83-117	13.4	20						
Dichlorodifluoromethane	41.3	2.0	"	50.0		82.6	75-118	4.54	20						
Ethylbenzene	44.9	2.0	"	50.0		89.7	83-115	0.806	20						
Hexachlorobutadiene	78.5	2.0	"	50.0		157	84-131	2.56	20	QL-					
Isopropylbenzene	48.7	2.0	"	50.0		97.5	85-115	0.573	20						
Methylene Chloride	50.4	2.0	"	50.0		101	85-119	3.32	20						
Naphthalene	66.5	2.0	"	50.0		133	58-121	12.9	20	QL-					
n-Butylbenzene	36.6	2.0	"	50.0		73.1	85-117	3.90	20	QL-					
n-Propylbenzene	42.6	2.0	"	50.0		85.2	85-115	1.70	20						
p-Isopropyltoluene	66.5	2.0	"	50.0		133	85-115	3.90	20	QL-					
sec-Butylbenzene	70.8	2.0	"	50.0		142	85-115	2.14	20	QL-					
Styrene	54.7	2.0	"	50.0		109	85-115	0.293	20						
tert-Butylbenzene	72.5	2.0	"	50.0		145	85-115	4.98	20	QL-					
Tetrachloroethene	50.2	2.0	"	50.0		100	70-139	6.55	20						
Toluene	46.5	2.0	"	50.0		92.9	77-115	0.259	20						
trans-1,2-Dichloroethene	48.8	2.0	"	50.0		97.7	85-115	0.328	20						
trans-1,3-Dichloropropene	53.8	2.0	"	50.0		108	77-121	4.17	20						
Trichloroethene	46.0	2.0	"	50.0		92.0	79-123	2.58	20						
Trichlorofluoromethane	59.1	2.0	"	50.0		118	63-151	2.43	20						
Vinyl Chloride	47.8	2.0	"	50.0		95.7	85-116	5.57	20						
Xylenes (total)	124	6.0	"	150		82.7	79-115	0.209	20						
Surrogate: Dibromofluoromethane	48.1		"	50.0		96.2	75-125								
Surrogate: Toluene-d8	55.4		"	50.0		111	75-125								
Surrogate: 4-Bromofluorobenzene	40.8		"	50.0		81.6	75-125								



360 GoddardProject Number:EST2736Reported:Irvine, California 92618Project Manager:Mr. Michael Marello27-Jan-11 11:37

#### **Notes and Definitions**

QR-04 The RPD result for this analyte in the sample exceeded the QC control limits; however, the RPD for other analytes were within the

QC control limits.

QL-H1 The spike recovery was out high for the LCS and/or the LCSD; however the analyte in CCV is within QC acceptance limits.

QL-H The spike recovery was out high for the LCS and/or the LCSD; however the analyte was not detected in any of the analyzed

samples.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



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